# SCHEMATIC DIAGRAM PARTS LIST P.C. BOARD

# **KENWOOD**

# PD110-3(D) PD110-5(D)

# **Constant-Voltage Current Power Supply**

MAIN CHASSIS (P	D110-3)					
WAIN CHASSIS (PD110-3)   Y86-1320-61			PARTS NO	NAME & DESC	RIPTION	
	-		K01-0410-05 K21-0877-13	H A N D L E K N O B		
REF. NO PARTS NO	NAME & DECEDITION		K27-0528-14	KNOB		
A01-1152-03	CACE & DESCRIPTION		N09-0623-04	SCREW	M 3 X 8	
A10-1446-22	CHACCIC		NO9-0626-04	SCREW	M 3X10	
A20-2794-05	DANGI (DIRCAST)		N 0 9 - 0 6 5 4 - 0 5	CCDEM	M AYR	
A21-1081-03	DECORATIVE PAREL		NO9-0704-05	SCREW		
B07-0713-04	ESCUTCHEON		NO9-0711-05	SCREW		
B31-0730-05	METER	1	N09-0723-05	SCREW	M 5X10 M 4X12 M 5X8	
B40-2765-04	NAME PLATE (SERIAL NO)		N09-0725-15	S C R E W S C R E W	M 4 X 1 2	
B40-2885-03	NAME PLATE		N09-0732-05	SCREW	M 5 X 8	
B41-0627-14	ESCUTCHEON METER NAME PLATE (SERIAL NO) NAME PLATE CAUTION LABEL (LINE VOL) CAUTION LABEL INSTRUCTION MANUAL INLET SOCKET TERMINAL BLOCK 4P TERMINAL BLOCK 12P TERMINAL (BULE) TERMINAL (GLAY) TERMINAL (RED) EARTH LUG		N14-0404-04	NUT		
B41-0792-04	CAUTION LABEL		N14-0620-05	NUT		
B50-7586-20	INSTRUCTION MANUAL		N19-0717-05	WASHER NONMETA	L AC310	
E18-0363-05	INLET SOCKET		N19-0726-04	WASHER		
E20-0491-05	TERMINAL BLOCK 4P		N30-4016-41	SCREW, PAN HD		
E20-1291-15	TERMINAL BLOCK 12P		N32-3006-41	SCREW, FLAT HD		
E21-0653-03	TERMINAL (BULE)		N33-4008-41	SCREW	M 2.6 X5	
E21-0665-03	TERMINAL (GLAY)	1	N88-4012-41	SCREW, FLAT HD	TAP TITE	
E21-0666-03	TERMINAL (RED)		N89-3008-41	SCREW, BINDING	TAP TITE	
	EARTH LUG		N89-3012-41	SCREW, BINDING	TAP TITE	
E23-0542-05	EARTH LUG		N89-3014-41	SCREW, BINDING		
E29-0506-04	SHORTING BAR (PANEL)		N89-4014-41	SCREW, BINDING		
E29-0536-14	SHORTING BAR (CONTROL TERM.)		551-1518-05	THERMAL SENSOR		
E29-0537-14	SHORTING BAR (REAR OUT PUT)		140-0405-05	INDUCTION NOTO		
E30-1819-05	LEAD HIDE HITH CONNECTOR		X73-109U-U1	AMPLIFIER UNIT		
E31-2783-05	PERD MIKE MILE CONNECTOR		X 1 1 - 1 4 U U - U 4 V O 1 - 1 O E O - O A	AMPLIFIER UNIT		
E33-4116-00	WIRE MODI		V Q 1 - 1 Q Q D - 1 1	CONSTANT. I UNI		
F01-0853-14 F01-0854-34	HEAL SINK		V01-1300-11	RECTIFIER UNIT		
F04-5021-05	BUCB		001-0501-05	COATING WIRE		
F19-0712-05	CAD ROD DD_659		212-1018-05	TUBE (PLASTIC)		
F20-0657-25	INCHLATOR		212-3017-05	THER (DIACTIC)		
H01-5825-14	CARTON ROX	C001	090-0966-05	CAP. ELECTRO	2200 100 660 20% 0.47 10% 660 20%	1601
H10-2823-12	FOAMED STYRENE PAD (F)	C002	C90-0968-05	CAP. ELECTRO	100	1601
H10-2824-12	FOAMED STYRENE PAD (R)	C003	C90-0961-05	CAP. ELECTRO	660 20%	63 V
H21-0806-04	PROTECTION SHEET (SET)	C004	C91-1243-05	CAP. CERAMIC	0.47 1 0%	250 V
H21-0831-14	PROTECTION SHEET (AC CORD)	C005	C90-0961-05	CAP. ELECTRO	660 20%	63 V
H25-0029-04	POLYETHYLENE BAG (FUSE)	C006	E31-2686-05	SPARK KILLER A	'SSY	
J02-0049-14	LEG	C007	C91-1243-05	CAP. CERAMIC	0.47 1 0%	250 V
J11-0504-05	CLAMPER					
J11-0507-05	CABLE CLAMP	C010	CE04W1E101M CE04W1E101M	CAP. ELECTRO		25 V
J13-0506-05	FUSE HOLDER	C011	CE04W1E101M	CAP. ELECTRO	100 20%	25 V
J21-0392-04	HOLDER FOR OUTPUT LEAD					
J21-2912-05	HOLDER FOR LED	D001	S10VB60	ROTARY SWITCH		
J21-2948-04	BRACKET	0002	CRU9G	THYRISTOR	0 P	0 V
J21-2949-04	BRACKET (FOR TRANSFORM)				CONNECTO D	
J21-4557-04	BRACKET (FOR TRANSISIUK)	8000	E31-2517-05 E31-2517-05	LEAD WIRE WITH	CONNECTOR	
J21-4558-04	DRACKET (FOR HEAT CINE)	0009	E31-2517-U5	LEAD WIRE WITH		
J21-4559-14 J21-4560-04	DRACKET (FOD HEAT SINK)	D010	TND15C401V	LEAD WIRE WITH	CONNECTOR	
	DRACKET (FOR HEM! SIMM)	DOIL	1 M K 1 D G 4 3 1 K	VARISTOR		
J21-4561-04 J21-4570-23	DDACKET (FOR DELEK)	D 0 0 1	221 2704 PF	LEAD WIRE WITH	CONNECIO D	
J32-0876-05	BUCC	P001	E31-6104-U3	LEAD WIRE WITH	CONNECIO D	
J61-0049-05	WIDE RAND	D002	R21-2604-UD	LEAD WIRE WITH		
J61-0525-05	MIDE MDVDDING KVNU	P 0 0 3	E31-2784-05 E31-2784-05 E31-2607-05 E31-2606-05 E31-2514-05	LEAD WIRE WITH		
J61-0526-05	BOARD SUPPORT	POOS	E31-2514-05	LEAD WIRE WITH		
901-0050-00	DANNE OVIIVAL		POT POT#-00	DEAD WIRE WILL	30 11 10 1 IR	

REF.NO	PARTS NO	NAME & DESCRIPTION
P009	E31-2514-05	LEAD WIRE WITH CONNCTOR
P010	E31-2517-05	LEAD WIRE WITH CONNECTOR
P011	E31-2517-05	LEAD WIRE WITH CONNECTOR
P012	E31-2518-05	LEAD WIRE WITH CONNECTOR
P309	E31-2751-05	LEAD WIRE WITH CONNECTOR
R 0 1 4	R92-1187-05	RES. FIXED
R 0 2 0	R92-1176-05	RES. FIXED
R051	RN14BK2E9103F	RES. METAL FILM 910K 1% 1/4W
R052	RN14BK2E9103F	RES. METAL FILM 910K 1% 1/4W
RUJZ	W#14D#2E31001	ADD. HEIRE TIEN OF THE TOTAL
S 0 0 1	S59-1502-05	SWITCH (CIRCUIT PROTECTOR)
T 0 0 1	L01-9656-05	POWER TRANSFORMER
T 0 0 2	L15-0412-05	INDUCTOR
1002	F10-0412-03	1400104
V R O O 1	R29-0505-05	V.R. 10K
VR002	R05-3511-05	V.R. 500 B

## MAIN CHASSIS (PD110-3D)

## Y86-1330-61

EF.NO	PARTS NO	NAME & DESCRIPTION
	A01-1152-03	CASE
	A10-1446-22	CHASSIS
	A20-2794-05	PANEL (DIECAST)
	A21-1088-03	DECORATIVE PANEL
	B07-0713-04	ESCUTCHEON
	B19-0738-13	FILTER
	B40-2765-04	NAME PLATE (SERIAL NO)
	B40-2887-03	NAME PLATE
	B41-0627-14	CAUTION LABEL (LINE VOL)
	B41-0792-04	CAUTION LABEL
	B50-7586-20	INSTRUCTION MANUAL
	E18-0363-05	INLET SOCKET
	E20-0491-05	TERMINAL BLOCK 4P
	E20-1291-15	TERMINAL BLOCK 12P
	E21-0653-03	TERMINAL (BULE)
	E21-0665-03 E21-0666-03	TERMINAL (GLAY) TERMINAL (RED)
	E23-0541-05	EARTH LUG
	E23-0541-05	EARTH LUG
	E29-0506-04	SHORTING BAR (PANEL)
	E29-0536-14	SHORTING BAR (CONTROL TERM.)
	E29-0537-14	SHORTING BAR (REAR OUT PUT)
	E30-1819-05	CEE CORD
	E31-2783-05	LEAD WIRE WITH CONNECTOR
	E33-4116-00	WIRE ASSY
	F01-0853-14	HEAT SINK
	F01-0854-34	HEAT SINK
	F04-5021-05	FUSE
	F07-0928-05	COVER
	F19-0712-05	CAP FOR DP-652
	F20-0647-05	INSULATOR
	F20-0657-25	INSULATOR
	H01-5827-14	CARTON BOX FOAMED STYRENE PAD (F)
	H10-2823-12	FOAMED STYRENE PAD (F) FOAMED STYRENE PAD (R)
	H10-2824-12	PROTECTION SHEET (SET)
	H21-0806-04 H21-0831-14	PROTECTION SHEET (AC CORD)
	H25-0029-04	POLYETHYLENE BAG (FUSE)
	J02-0049-14	LEG
	J11-0504-05	CLAMPER
	J11-0507-05	CABLE CLAMP
	J13-0506-05	FUSE HOLDER
	J19-1620-05	CORD CLAMP
	J21-0392-04	HOLDER FOR OUTPUT LEAD
	J21-2912-05	HOLDER FOR LED
	J21-2948-04	BRACKET
	J21-2949-04	BRACKET
	J21-4513-03	BRACKET FOR PCB
	J21-4557-04	BRACKET (FOR TRANSISTOR)
	J21-4558-04	BRACKET (FOR TRANSISTOR)
	J21-4559-14	BRACKET (FOR HEAT SINK)
	J21-4560-04	BRACKET (FOR HEAT SINK)
	J21-4570-23	BRACKET (FOR PCB)
	J32-0876-05	BOSS
	J61-0049-05	WIRE BAND
	J61-0525-05	WIRE WRAPPING BAND

REF.NO	PARTS NO	NAME & DESCRIPTION
	K01-0410-05 K21-0877-13 K27-0528-14 N09-0623-04 N09-0626-04 N09-0654-05	HANDLE KNOB KNOB SCREW M 3X8 SCREW M 3X10 SCREW M 4X8
	N09-0704-05 N09-0711-05 N09-0723-05 N09-0725-15 N09-0732-05 N14-0404-04	SCREW SCREW M 5X10 SCREW M 4X12 SCREW M 5X8 NUT
	N14-0620-05 N19-0191-05	NUT WASHER NONMETAL
	N19-0717-05 N19-0726-04 N32-3006-41	WASHER NONMETAL AC310 WASHER SCREW, FLAT HD M 3X6
	N32-3008-41 N32-3008-41 N33-4008-41	SCREW, FLAT HD M 3X8 SCREW M 2.6X5
	N88-4012-41 N89-3008-41	SCREW, FLAT HD TAP TITE SCREW, BINDING TAP TITE
	N89-3012-41 N89-3014-41	SCREW, BINDING TAP TITE SCREW, BINDING TAP TITE SCREW. BINDING TAP TITE
	N89-4014-41 S51-1518-05 T40-0405-05	SCREW, BINDING TAP TITE THERMAL SENSOR INDUCTION MOTOR
	X73-1700-01 X76-1260-11	AMPLIFIER UNIT DIGITAL PANEL METER UNIT
	X77-1400-04 X81-1850-05	AMPLIFIER UNIT CURRENT DIFECTER UNIT
	X81-1980-11 X81-2110-01 001-0501-05	CONSTANT.I UNIT RECTIPIER UNIT COATING WIRE
	212-1018-05 212-3017-05	TUBE (PLASTIC) TUBE (PLASTIC)
C 0 0 1 C 0 0 2	C90-0966-05 C90-0968-05	CAP. ELECTRO 2200 160V CAP. ELECTRO 100 160V
C 0 0 3 C 0 0 4 C 0 0 5	C90-0961-05 C91-1243-05 C90-0961-05	CAP. BLECTRO 660 20% 63V CAP. CERAMIC 0.47 10% 250V CAP. BLECTRO 660 20% 63V
C006 C007	E31-2686-05 C91-1243-05	SPARK KILLER A'SSY CAP. CERAMIC 0.47 10% 250V
C 0 1 0 C 0 1 1	CE04W1E101M CE04W1E101M	CAP. ELECTRO 100 20% 25V CAP. ELECTRO 100 20% 25V
D 0 0 1	E31-2518-05	LEAD WIRE WITH CONNECTOR
D 0 0 1 D 0 0 2	S10VB60 CR09G	ROTARY SWITCH THYRISTOR OP OV
D008 D009	E31-2517-05 E31-2517-05	LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR
D 0 1 0 D 0 1 1	NO USE TNR15G431K	VARISTOR
P 0 0 1 P 0 0 2	E31-2784-05 E31-2784-05	LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR
P005 P009	E31-2514-05 E31-2514-05	LEAD WIRE WITH CONNCTOR LEAD WIRE WITH CONNCTOR
P010 P011	E31-2517-05 E31-2517-05	LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR
P012 P201	E31-2518-05 E31-2519-05	LEAD WIRE WITH CONNECTOR  LEAD WIRE A'SSY IC. TRANSFORMER
P202 P203	E31-2519-05 E31-2519-05	LEAD WIRE A'SSY IC, TRANSFORMER LEAD WIRE A'SSY IC, TRANSFORMER LEAD WIRE A'SSY IC, TRANSFORMER
P204 P205	NO USE E31-2756-05	LEAD WIRE WITH CONNECTOR
P309	E31-2751-05	LEAD WIRE WITH CONNECTOR
R 0 1 4	R92-1187-05	RES. FIXED
R 0 2 0	R92-1176-05	RES. FIXED
R 0 5 1 R 0 5 2	RN14BK2E9103F RN14BK2E9103F	RES. METAL FILM 910K 1% 1/4W RES. METAL FILM 910K 1% 1/4W
S 0 0 1	\$59-1502-05	SWITCH (CIRCUIT PROTECTOR)
T001 T002	L01-9656-05 L15-0412-05	POMER TRANSFORMER INDUCTOR

REF.NO	PARTS NO	NAME & DI	
U203	UPC7805H	IC, VOLTAGE	
U204	UPC7805H	IC, VOLTAGE	
	R29-0505-05	V.R.	10K
	R05-3511-05	V.R.	500 B

#### **MAIN CHASSIS (PD110-5)**

#### Y86-1300-61

```
NAME & DESCRIPTION
REF. NO PARTS NO
           A01-1164-13
A10-1448-12
                                     CASE
                                     CHASSIS
                                     PANEL (DIECAST)
           A20-2794-05
           A21-1081-03
                                     DECORATIVE PANEL
           B07-0713-04
                                     ESCUTCHEON
           B31-0734-05
                                     METER
                                     NAME PLATE (SERIAL NO)
NAME PLATE
           B40-2765-04
           B40-2881-03
                                     CAUTION LABEL (LINE VOL)
CAUTION LABEL (FUSE)
INSTRUCTION MANUAL
            B41-0627-14
           B41-0791-04
           B50-7586-20
                                     INLET SOCKET
TERMINAL BLOCK
TERMINAL BLOCK
TERMINAL (BULE)
            E18-0363-05
           E20-0491-05
           E20-1291-15
                                                               12P
            E21-0653-03
                                     TERMINAL (GLAY)
TERMINAL (RED)
            E21-0665-03
           E21-0666-03
                                     EARTH LUG
EARTH LUG
            E23-0541-05
            E23-0542-05
                                     SHORTING BAR (PANEL)
SHORTING BAR (CONTROL TERM.)
SHORTING BAR (REAR OUT PUT)
            E29-0506-04
           E29-0536-14
E29-0537-14
                                     CEE CORD
LEAD WIRE WITH CONNECTOR
WIRE ASSY
           E30-1819-05
E31-2780-05
            E33-4116-00
                                     HEAT SINK
HEAT SINK
FUSE (8A)
CAP FOR DP-652
INSULATOR
           F01-0853-14
F01-0854-34
            F06-8023-05
           F19-0712-05
F20-0625-04
F20-0657-25
                                     INSULATOR
                                     CARTON BOX
FOAMED STYRENE PAD (F)
FOAMED STYRENE PAD (R)
            H01-5821-14
            H10-2823-12
            H10-2824-12
                                     PROTECTION SHEET (SET)
PROTECTION SHEET (AC CORD)
POLYETHYLENE BAG (FUSE)
           H21-0806-04
H21-0831-14
            H25-0029-04
            J02-0049-14
                                     CLAMPER
CLAMP
CABLE CLAMP
FUSE HOLDER
HOLDER FOR OUTPUT LEAD
HOLDER FOR LED
           J11-0504-05
J11-0507-05
            J13-0506-05
            J21-0392-04
            J21-2912-05
            J21-2948-04
                                     BRACKET
            J21-2949-04
J21-4557-04
                                     BRACKET
                                     BRACKET (FOR TRANSISTOR)
BRACKET (FOR TRANSISTOR)
BRACKET (FOR HEAT SINK)
BRACKET (FOR HEAT SINK)
            J21-4558-04
            J21-4559-14
J21-4560-04
                                     BRACKET (FOR METER)
BRACKET (FOR PCB)
            J21-4561-04
            J21-4570-23
J32-0876-05
                                      BOSS
            J32-0877-05
                                      BOSS
            J61-0049-05
J61-0525-05
                                     WIRE BAND
WIRE WRAPPING BAND
            J61-0526-05
                                      BOARD SUPPORT
            K01-0409-05
K21-0877-03
                                     HANDLE
                                     KNOB.
            K27-0528-14
                                     KNOB
                                                               M 3 X 8
            NO9-0626-04
                                      SCREW
                                                                M 3X10
             N09-0654-05
                                     SCREW
                                                               M AXR
            N09-0704-05
N09-0711-05
                                     SCREW
                                      SCREW
                                                                M 5 X 1 0
             NO9-0723-05
                                      SCREW
            N09-0725-15
                                      SCREW
                                                               M 4X12
M 5X8
            N09-0732-05
                                      SCREW
            N14-0404-04
                                      NUT
                                      NUT
            N19-0717-05
N19-0726-04
                                      WASHER NONMETAL AC310
                                      WASHER
                                      SCREW, PAN HD
                                      SCREW, FLAT HD M 3X6
             N32-3006-41
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NAME & DESCRIPTION
REF.NO PARTS NO
N33-4008-41
                              SCREW M 2.6X5
SCREW, FLAT HD TAP TITE
         N88-4012-41
                              SCREW, BINDING TAP TITE
SCREW, BINDING TAP TITE
         N89-3008-41
         N89-3012-41
                              SCREW, BINDING TAP TITE SCREW, BINDING TAP TITE THERMAL SENSOR
         N89-4014-41
         $51-1518-05
         T40-0405-05
                              INDUCTION MOTOR
                              AMPLIFIER UNIT
         X73-1690-01
X77-1400-04
                              CURRENT DIFECTER UNIT
CONSTANT.I UNIT
RECTIFIER UNIT
         X81-1850-02
         X81-1980-09
         X81-2110-00
001-0501-05
                              COATING WIRE
TUBE (PLASTIC)
TUBE (PLASTIC)
         212-1018-05
212-3017-05
         C90-0963-05
                              CAP. ELECTRO
                                                    3300
                                                                  160 V
C001
                                                            160 V
20% 63 V
 C002
         C90-0968-05
                              CAP. ELECTRO
                                                   100
                              CAP. ELECTRO
CAP. CERAMIC
 C003
         C90-0961-05
                                                   660
                                                    0.47
                                                            10% 250 V
         C91-1243-05
 C 0 0 4
 C005
         C90-0961-05
                              CAP. ELECTRO
                                                    660
                                                            20%
                                                                  63 V
 C006
         E31-2686-05
                              SPARK KILLER A'
                                                  SSY
                                                    0.47
                                                            10% 250V
 C 0 0 7
        C91-1243-05
                              CAP. CERAMIC
 C010
         CE04W1E101M
                              CAP. ELECTRO
                                                    100
                                                            202
                                                                  2.5 V
                                                                   25 V
 COLL CEDAWLETOIN
                              CAP. ELECTRO
                                                    100
                                                            20%
 D001
         S10VB60
                              ROTARY SWITCH
                                                    ΠP
 D 0 0 2
        CRUGG
                              THYRISTOR
                              LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR
 D008
 D009
        E31-2517-05
E31-2518-05
 D010
         TNR15G431K
                              VARISTOR
                              LEAD WIRE WITH CONNECTOR
                              LEAD WIRE WITH CONNECTOR
LEAD WIRE WITH CONNECTOR
LEAD WIRE WITH CONNECTOR
         E31-2781-05
        E31-2607-05
 P003
        E31-2606-05
 P004
        E31-2514-05
                              LEAD WIRE WITH CONNCTOR
                              LEAD WIRE WITH CONNCTOR
 P009
         E31-2514-05
                              LEAD WIRE WITH CONNECTOR
 P010
                              LEAD WIRE WITH CONNECTOR
LEAD WIRE WITH CONNECTOR
 P011
         E31-2517-05
 P012
       E31-2518-05
 P309
        E31-2751-05
                              LEAD WIRE WITH CONNECTOR
                              RRS. FIXED
 R014 R92-1187-05
                              RES. FIXED
 R 0 2 0
        R92-1176-05
                              RES. METAL FILM 910K 1% 1/4W
RES. METAL FILM 910K 1% 1/4W
         RN14BK2E9103F
 R 0.51
 R052
         RN14BK2E9103F
                              SWITCH (CIRCUIT PROTECTOR)
 $001 $59-1502-05
                              POWER TRANSFORMER
 T001
        L01-9646-05
 T002 L15-0411-05
                               INDUCTOR
                                                    10K
 VR001 R29-0505-05
                               V.R.
 VR002 R05-3511-05
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#### **MAIN CHASSIS (PD110-5D)**

#### Y86-1310-61

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NAME & DESCRIPTION
REF. NO PARTS NO
         A01-1164-13
                              CASE
                              CHASSIS
         A10-1448-12
                              PANEL (DIECAST)
DECORATIVE PANEL
         A20-2794-05
         A21-1088-03
         B07-0713-04
                               ESCUTCHEON
         B19-0738-13
                               FILTER
                              NAME PLATE (SERIAL NO)
NAME PLATE
         B40-2765-04
         B40-2883-03
                              CAUTION LABEL (LINE VOL)
CAUTION LABEL (FUSE)
         B41-0627-14
         B41-0791-04
         B50-7586-20
                               INSTRUCTION MANUAL
                              INLET SOCKET
TERMINAL BLOCK
TERMINAL BLOCK
         E18-0363-05
         E20-0491-05
         E20-1291-15
                              TERMINAL (BULE)
TERMINAL (GLAY)
TERMINAL (RED)
         E21-0653-03
         E21-0665-03
         E21-0666-03
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REF. NO		NAME & DESCRIPTION
	E23-0541-05	EARTH LUG
	E23-0542-05	EARTH LUG
	E29-0506-04	SHORTING BAR (PANEL)
	E29-0536-14	SHORTING BAR (CONTROL TERM.)
	E29-0537-14	SHORTING BAR (RBAR OUT PUT) CEB CORD
	E30-1819-05 E31-2780-05	LEAD WIRE WITH CONNECTOR
	E33-4116-00	WIRE ASSY
	F01-0853-14	HEAT SINK
	F01-0854-34	HEAT SINK
	F06-8023-05	FUSE (8A)
	F07-0928-05	COVER
	F19-0712-05	CAP FOR DP-652
	F20-0625-04	INSULATOR
	F20-0647-05	INSULATOR
	F20-0657-25	INSULATOR
	H01-5823-14	CARTON BOX
	H10-2823-12	FOAMED STYRENE PAD (F)
	H10-2824-12	FOAMED STYRENE PAD (R)
	H21-0806-04	PROTECTION SHEET (SET)
	H21-0831-14	PROTECTION SHEET (AC CORD)
	H25-0029-04	POLYETHYLENE BAG (FUSE)
	J02-0049-14	LEG
	J11-0504-05	CLAMPER
	J11-0507-05	CABLE CLAMP Fuse Holder
	J13-0506-05	
	J19-1620-05 J21-0392-04	CORD CLAMP HOLDER FOR OUTPUT LEAD
	J21-0392-04 J21-2912-05	HOLDER FOR LED
	J21-2948-04	BRACKET
	J21-2949-04	BRACKET
	J21-4513-03	BRACKET FOR PCB
	J21-4557-04	BRACKET (FOR TRANSISTOR)
	J21-4558-04	BRACKET (FOR TRANSISTOR)
	J21-4559-14	BRACKET (FOR HEAT SINK)
	J21-4560-04	BRACKET (FOR HEAT SINK)
	J21-4570-23	BRACKET (FOR PCB)
	J32-0876-05	BOSS
	J32-0877-05	BOSS
	J61-0049-05	WIRE BAND
	J61-0525-05	WIRE WRAPPING BAND
	J61-0526-05 K01-0409-05	BOARD SUPPORT
	K21-0877-13	HANDLE KNOB
	K27-0528-14	KNOB
	NO9-0623-04	SCREW N 3X8
	NO9-0626-04	SCREW M 3X10
	N09-0654-05	SCREW M 4X8
	NO9-0704-05	SCREW
	N09-0711-05	SCREW
	NO9-0723-05	SCREW M 5X10
	NO9-0725-15	SCREW M 4X12
	NO9-0732-05	SCREW M 5X8
	N14-0404-04	NUT
	N14-0620-05	NUT
	N19-0191-05	WASHER NONMETAL
	N19-0717-05	WASHER NONMETAL AC310 WASHER
	N19-0726-04 N32-3006-41	SCREW, FLAT HD M 3X6
	N32-3008-41	SCREW, PLAT HD M 3X8
	N33-4008-41	SCREW N 2.6X5
	N88-4012-41	SCREW, FLAT HD TAP TITE
	N89-3008-41	SCREW, BINDING TAP TITE
	N89-3012-41	SCREW, BINDING TAP TITE
	N89-3014-41	SCREW, BINDING TAP TITE
	N89-4014-41	SCREW, BINDING TAP TITE
	\$51-1518-05	THERMAL SENSOR
	T40-0405-05	INDUCTION MOTOR
	X73-1700-01	AMPLIFIER UNIT
	X76-1260-09	DIGITAL PANEL METER UNIT
	X77-1400-04	AMPLIFIER UNIT
	X81-1850-03	CURRENT DIFECTER UNIT
	X81-1980-09 X81-2110-00	CONSTANT.I UNIT RECTIFIER UNIT
	001-0501-05	COATING WIRE
	212-1018-05	TUBE (PLASTIC)
	212-1016-05	TUBE (PLASTIC)
C001	C90-0963-05	CAP. ELECTRO 3300 160V
C 0 0 2	C90-0968-05	CAP, ELECTRO 100 160V
C003	C90-0961-05	CAP. ELECTRO 660 20% 63V
C 0 0 4	C91-1243-05	CAP. CERAMIC 0.47 10% 250V
C005	C90-0961-05	CAP. ELECTRO 660 20% 63V
C006	E31-2686-05	SPARK KILLER A'SSY
C 0 0 7	C91-1243-05	CAP. CERAMIC 0.47 10% 250V
C 0 1 0	CR04H1R101H	CAD RIRCTDO 100 207 254

REF.NO	PARTS NO CE04W1E101M	NAME & DESCRIPTION CAP. ELECTRO 100 20%	2 5 V
D 0 0 1 D 0 0 2	S 1 0 V B 6 0 C R 0 9 G	ROTARY SWITCH THYRISTOR OP	0 V
D008 D009 D010 D011	E31-2517-05 E31-2517-05 E31-2518-05 TNR15G431K	LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR VARISTOR	
P001 P002	E31-2781-05 E31-2781-05	LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR	
P005 P009 P010 P011 P012	E31-2514-05 E31-2514-05 E31-2517-05 E31-2517-05 E31-2518-05	LEAD WIRE WITH CONNCTOR LEAD WIRE WITH CONNCTOR LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR	
P 2 0 1	E31-2519-05	LEAD WIRE A'SSY IC, TRANSFOR	MER
P201 P202 P203	E31-2519-05 NO USE E31-2519-05	LEAD WIRE A'SSY IC, TRANSFOR	
P204 P205	NO USE E31-2782-05	LEAD WIRE WITH CONNECTOR	
P309	E31-2751-05	LEAD WIRE WITH CONNECTOR	
R 0 1 4	R92-1187-05	RES. FIXED	
R 0 2 0	R92-1176-05	RES. FIXED	
R 0 5 1 R 0 5 2	RN14BK2E9103F RN14BK2E9103F		/4W /4W
S 0 0 1	S 5 9 - 1 5 0 2 - 0 5	SWITCH (CIRCUIT PROTECTOR)	
T001 T002	L01-9646-05 L15-0411-05	POWER TRANSFORMER INDUCTOR	
U 2 0 3 U 2 0 4	UPC7805H UPC7805H	IC, VOLTAGE REGULATOR IC, VOLTAGE REGULATOR	
	R 2 9 - 0 5 0 5 - 0 5 R 0 5 - 3 5 1 1 - 0 5	V.R. 10K V.R. 500 B	

<b>AMPLIFIER UNIT (P</b>	D110-3/5)	REF.NO PARTS NO R004 R92-1161-05	NAME & DESCE Res. Carbon	RIPTION 560	5%	1/4W
X7	/3-1690-01	R005 RD14DB2H512J	RES. CARBON	5.1K	5 %	1/2W
RBF.NO PARTS NO E23-0047-04	NAME & DESCRIPTION TERMINAL	R006 RD14BB2C102J D009 RD13F(B2) D010 MTZ9.1JC	RES. CARBON DIODE ZENER DIODE ZENER	1 K 1 3 V 9 V	5%	1/6W
F01-0846-05 F01-0856-14	HEAT SINK Heat Sink	D011 1SS132 D012 MTZ4.7JA	DIODE DIODE ZENER	4.5V		
J25-5159-12	PCB (UNMOUNTED)	D013 1SS132 D014 1SZ59(T)	DIODE Diode Zener	6.25V		
N 0 9 - 0 6 2 3 - 0 4 2 1 2 - 1 0 1 8 - 0 5	SCREW M 3X8 TUBE (PLASTIC)	D015 1SZ59(T)	DIODE ZENER	6.25V		
212-2010-05 C001 CF92V1H473J	TUBE (PLASTIC) CAP. POLYESTER 0.047 5% 50V	D017 1SS132	DIODE			
C002 CF92V1H473J	CAP. POLYESTER 0.047 5% 50V	D018 188132 D019 188132	DIODE DIODE			
C003 C90-0924-05 C004 CE04W1E100M	CAP. BLECTRO 330 50V CAP. BLECTRO 10 20% 25V	D020 1SS132	DIODE			
C005 CE04DW1E221M C006 C90-0939-05	CAP. BLECTRO 220 20% 25V CAP. BLECTRO 470 35V	D021 1SS132 D022 1SS132	DIODE			
C007 CE04W1E100M	CAP. ELECTRO 10 20% 25V	D023 1SS132 D024 1SS132	DIODE DIODE			
C008 CE04W1E100M C009 CE04DW1E221M	CAP. ELECTRO 10 20% 25V CAP. ELECTRO 220 20% 25V	D025 188132 D026 188132	DIODE DIODE			
CO10 C90-0924-05 C011 CE04W1E101M	CAP. ELECTRO 330 50V CAP. ELECTRO 100 20% 25V	D027 188132	DIODE			
CO12 CEO4W1HR33M	CAP. ELECTRO 0.33 20% 50V	D028 MTZ5.1JB D029 1SS132	DIODE, ZENER DIODE	5 V		
CO13 CEO4W1H4R7M CO14 CEO4W1E100M	CAP. ELECTRO 4.7 20% 50V CAP. ELECTRO 1.0 20% 25V	D030 MTZ5.1JB D031 DSA1A2	DIODE, ZENER DIODE	5 V		
CO15 CEO4AW1HO1OM CO16 CC45CH1H1O1J	CAP. BLECTRO 1 20% 50V CAP. CERAMIC 100P 5% 50V	D031 D3A1A2	DIODE			
CO17 CEO4AW1HO10M	CAP. ELECTRO 1 20% 50V	D040 S1VB20	DIODE			
C018 CC45CH1H101J C019 C90-0967-05	CAP. CERAMIC 100P 5% 50V CAP. ELECTRO 0.39 160V	D041 S1VB20 D042 DSA1A2	DIODE DIODE			
CO20 CQ92P2A102J CO21 NO USB	CAP. MYLAR 1000P 5% 100V	DO43 DSA1A2	DIODE			
C022 CQ92P2A332J C023 NO USE	CAP. MYLAR 3300P 5% 100V	D044 DSA1A2 D045 DSA1A2	DIODE			
C024 CF92V1H332J	CAP. POLYESTER 3300P 5% 50V	D046 MTZ6.2JB D047 1SS132	DIODE ZENER DIODE	6.1V		
C028 CC45CH1H101J	CAP. CERAMIC 100P 5% 50V	D048 188132 D049 188132	DIODE DIODE			
CO29 NO USE CO30 CC45CH1H1O1J	CAP. CERAMIC 100P 5% 50V	D050 188132	DIODE			
C031 CF92V1H103J	CAP. POLYESTER 0.01 5% 50V	D051 RD10F(B2) D052 RD10F(B2)	DIODE ZENER Diode Zener	10V 10V		
C032 CC45CH1H101J C033 CF92V1H103J	CAP. CERAMIC 100P 5% 50V CAP. POLYESTER 0.01 5% 50V	D053 188132 D054 188132	DIODE			
C034 CF92V1H103J C035 CF92V1H103J	CAP. POLYESTER 0.01 5% 50V CAP. POLYESTER 0.01 5% 50V	D055 188132 D056 188132	DIODE DIODE			
C036 CF92V1H473J C037 CF92V1H103J	CAP. POLYESTER 0.047 5% 50V CAP. POLYESTER 0.01 5% 50V	D057 188132	DIODE			
C038 CF92V1H473J	CAP. POLYESTER 0.047 5% 50V	D058 188132 D059 MTZ8.2JC	DIODE DIODE ZENER	9.6V		
CO39 CF92V1H473J CO40 CF92V1H473J	CAP. POLYESTER 0.047 5% 50V CAP. POLYESTER 0.047 5% 50V	D060 188132 D061 188132	DIODE DIODE			
CO41 CF92V1H473J CO42 CC45CH1H101J	CAP. POLYESTER 0.047 5% 50V CAP. CERAMIC 100P 5% 50V	D062 1SS132	DIODE			
CO43 CC45CH1H101J	CAP. CERAMIC 100P 5% 50V CAP. POLYESTER 4700P 5% 50V	D063 188132 D064 188132	DIODE			
C044 CF92V1H472J C045 CF92V1H472J	CAP. POLYESTER 4700P 5% 50V	D065 188132	DIODE			
CO50 CF92V1H473J CO51 CF92V1H473J	CAP. POLYESTER 0.047 5% 50V CAP. POLYESTER 0.047 5% 50V	P003 E40-0273-05 P004 E40-0273-05	PIN CONNECTOR PIN CONNECTOR	2 P 2 P		
C052 C90-0924-05 C053 CF92V1H103J	CAP. BLECTRO 330 50V CAP. POLYESTER 0.01 5% 50V	P206 E40-0273-05	PIN CONNECTOR	2 P		
CO54 CF92V1H103J CO55 CE04W1E100M	CAP. POLYESTER 0.01 5% 50V CAP. BLECTRO 10 20% 25V	Q001 2SD1406(Y) Q002 2SC2785(F)	TR, SI, NPN			
C056 C90-0924-05 C057 CF92V1H103J	CAP. BLECTRO 330 50V CAP. POLYESTER 0.01 5% 50V	Q003 2SC2785(F)	TR. SI, NPN TR. SI, NPN			
CO58 CF92V1H1O3J CO59 CEO4W1E1OOM	CAP. POLYESTER 0.01 5% 50V	Q004 2SA1021(0) Q005 2SB1015(Y)	TR. SI, PNP TR. SI, PNP			
C060 CF92V1H103J	CAP. POLYESTER 0.01 5% 50V	Q006 2SA1175(F) Q007 2SA1175(F)	TR. SI, PNP TR. SI, PNP			
C061 CC45CH1H470J C062 C91-0595-05	CAP. CERAMIC 47P 5% 50V CAP. POLYESTER 0.033 2% 50V	Q008 2SC2481(0)	TR. SI, NPN			
C063 CC45CH1H101J C064 CF92V1H102J	CAP. CERAMIC 100P 5% 50V CAP. POLYESTER 1000P 5% 50V	Q009 2SC3064(F) Q010 2SC2785(F)	TR. SI, NPN TR. SI, NPN			
C065 CF92V1H103J	CAP. POLYESTER 0.01 5% 50V	Q011 2SC2785(F) Q012 2SC2459(GR)	TR. SI, NPN TR. SI, NPN			
C066 CF92V1H472J C067 CE04W1E100M	CAP. POLYESTER 4700P 5% 50V CAP. ELECTRO 10 20% 25V	Q013 2SC2481(0) Q014 2SK170(BL)	TR. SI, NPN			
C068 CF92V1H103J C069 CF92V1H473J	CAP. POLYESTER 0.01 5% 50V CAP. POLYESTER 0.047 5% 50V	Q015 2SK170(BL)	FET, N-CHANNEL FET, N-CHANNEL			
C073 CF92V1H224J	CAP. POLYESTER 0.22 5% 50V	Q016 25K170(BL) Q017 25K170(BL)	FET, N-CHANNEL FET, N-CHANNEL			
CO74 CC45CH1H101J	CAP. CERAMIC 100P 5% 50V	9020 2SK170(BL)	FET, N-CHANNEL			
CO75 CEO4W1E100M CO76 CEO4W1C471M	CAP. ELECTRO 10 20% 25V CAP. ELECTRO 470 20% 16V	Q021 2SC2785(F)	TR. SI, NPN TR. SI, NPN			
D001 S1VB20	DIODE			100	F	1.46
D002 S1VB20 D003 DSA1A2	DIODE DIODE	R001 RD14BB2C101J R002 RD14BB2C101J	RES. CARBON RES. CARBON	100	5% 5%	1/6W 1/6W
D004 DSA1A2	DIODE	R003 RD14DB3D471J	RES. CARBON	470	5%	2 W
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REF. NO	PARTS NO	NAME & DESCRIPTION	1	REF. NO	PARTS NO	NAME & DESCR	IPTION	
D005	NO USE			R 0 9 0	RD14BB2C333J	RES. CARBON	33K 5% 1	/6W
D006	RD13F(B2)	DIODE ZENER 13V		R091	NO USE			
D007	MTZ9.1JC	DIODE ZENER 9V		R092	RD14BB2C153J	RES. CARBON	15K 5% 1.	/6W
D008	188132	DIODE		R 0 9 3	RD14BB2C473J	RES. CARBON		/6W
R 0 0 7	RD14DB2H2R7J	RES. CARBON 2.7	5% 1/2W	R 0 9 4	RD14BB2C473J	RES. CARBON		/6W
R008	RD14BB2C153J	RES. CARBON 15K	5% 1/6W	R095	RD14BB2C471J	RES. CARBON		/6₩
			1% 1/5W		RDIABBEOTITE	EDG. GREGOR		
R009	R92-1144-05	RES. MRTAL FILM 7.5K		D 0 0 0	DOG 1861 85	JUMPING RES.	ZERO OHM	
R 0 1 0	R92-1144-05	RES. MRTAL FILM 7.5K	1% 1/5W	R098	R92-1061-05	JUHFING RES.	DERU UNIN	
R 0 1 1	RD14DB3D471J	RES. CARBON 470	5% 2W	R 0 9 9	NO USE		100 FW 1	/ C H
R012	R92-1161-05	RES. CARBON 560	5% 1/4W	R 100	RD14BB2C101J	RES. CARBON		/6W
R013	RD14DB2H512J	RES. CARBON 5.1K	5% 1/2W	R 1 0 1	RD14BB2C101J	RES. CARBON		/6W
R 0 1 4	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R102	RD14DB2H392J	RES. CARBON		/2W
R 0 1 5	RD14DB2H2R7J	RES. CARBON 2.7	5% 1/2W	R103	RD14BB2C103J	RES. CARBON	10K 5% 1.	/6W
R016	RD14BB2C153J	RES. CARBON 15K	5% 1/6W	R104	RD14BB2C153J	RES. CARBON	15K 5% 1.	/6W
R 0 1 7	RD14BB2C682J	RES. CARBON 6.8K	5% 1/6W	R105	RD14BB2C123J	RES. CARBON	12K 5% 1	/6W
R018	R92-1138-05	RES. METAL FILM 360	1% 1/5W	R106	RD14BB2C332J	RES. CARBON		/6W
R019	R92-1131-05	RES. MRTAL FILM 430	1% 1/5W	R107	RD14BB2C472J	RES, CARBON		/6W
R 0 2 0		RES. METAL FILM 3.09				RES. METAL FILM		/5W
	R92-1139-05			R108	R92-1152-05			/6W
R 0 2 1	R92-1140-05	RES. METAL FILM 4.3K	1% 1/5W	R109	RD14BB2C104J	RES. CARBON		/6W
		154		R110	RD14BB2C222J	RES. CARBON		_
R 0 2 4	RD14BB2C153J	RES. CARBON 15K	5% 1/6W	R111	R92-1149-05	RES. METAL FILM		/5W
R025	RD14BB2C153J	RES. CARBON 15K	5% 1/6W	R112	RD14BB2C682J	RES. CARBON		/6₩
R 0 2 6	RD14BB2C243J	RES. CARBON 24K	5% 1/6W	R113	R92-1151-05	RES. METAL FILM		/5₩
R027	RD14BB2C121J	RES. CARBON 120	5% 1/6W	R114	RD14BB2C470J	RES. CARBON	47 5% 1	./6W
R 0 2 8	RD14BB2C182J	RES. CARBON 1.8K	5% 1/6W	R115	RD14BB2C104J	RES. CARBON	100K 5% 1	/6W
R 0 2 9	RD14BB2C181J	RES. CARBON 180	5% 1/6W	R116	RD14BB2C472J	RES. CARBON	4.7K 5% 1	/6W
R 0 3 0	RN14BE2E5101D	RES. METAL FILM 5.1K	0.5%1/4W	R117	RD14BB2C224J	RES. CARBON	220K 5% 1	/6W
R 0 3 1	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R118	RD14BB2C103J	RES. CARBON		/6W
R 0 3 2	R92-1150-05	RES. METAL FILM 100K	1% 1/5W	R119	RD14BB2C122J	RES. CARBON		/6W
			1% 1/5W			RES. CARBON		2 W
R 0 3 3	R92-1138-05	RES. METAL FILM 360		R120	RD14DB3D472J			76W
R 0 3 4	RD14BB2C151J	RES. CARBON 150	5% 1/6W	R121	RD14BB2C104J	RES. CARBON		/2W
R 0 3 5	R92-1146-05	RES. METAL FILM 11K	1% 1/5W	R122	R92-1076-05	RES. METAL GLAZ		
R 0 3 6	RN14BE2E5601D	RES. METAL FILM 5.6K	0.5%1/4W	R123	RD14BB2C472J	RES. CARBON		./6W
R037	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R124	RD14BB2C105J	RES. CARBON	1M 5% 1	/6W
R038	R92-1150-05	RES. METAL FILM 100K	1% 1/5W					
R039	R92-1138-05	RES. METAL FILM 360	1% 1/5W	R127	RD14BB2C911J	RES. CARBON	910 5% 1	./6W
R 0 4 0	RD14BB2C221J	RES. CARBON 220	5% 1/6W	R128	R92-1133-05	RES. METAL FILM	5.6K 1% 1	/5W
R 0 4 1	R92-1147-05	RES. METAL FILM 16.21		R129	RD14BB2C472J	RES. CARBON	4.7K 5% 1	/6W
R 0 4 2	RN14BE2H1002D	RES. METAL FILM 10K	0.5%1/2W	R130	RD14BB2C103J	RES. CARBON		/6W
R 0 4 3	RN14BE2H3652D	RES. METAL FILM 36.51		R131		RES. METAL FILM		/5₩
		RES. METAL FILM 36.51			R92-1149-05			/6W
R 0 4 4	RN14BE2H3652D			R132	RD14BB2C102J	RES. CARBON		/6W
R 0 4 5	RN14BE2H1002D	RES. METAL FILM 10K	0.5%1/2W	R133	RD14BB2C103J	RES. CARBON		
R 0 4 6	RN 1 4 B E 2 H 3 7 4 O D	RES. METAL FILM 374	0.5%1/2W	R134	RD14BB2C103J	RES. CARBON		1/6W
R 0 4 7	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R135	RD14BB2C102J	RES. CARBON		1/6W
R 0 4 8	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R136	RD14BB2C472J	RES. CARBON		1/6W
R 0 4 9	R92-1134-05	RES. METAL FILM 1K	1% 1/5W	R137	RD14BB2C102J	RES. CARBON	1K 5% 1	l/6₩
R 0 5 0	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R138	NO USE			
R 0 5 1	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R139	RD14DB3A330J	RES. CARBON	33 5%	1 W
R 0 5 2	R92-1134-05	RES. METAL FILM 1K	1% 1/5W	R140	NO USE			
R 0 5 3	RD14BB2C162J	RES. CARBON 1.6K	5% 1/6W	R141	RD14DB2H102J	RES. CARBON	1K 5% 1	1/2W
R 0 5 4		RES. METAL FILM 4.3K	1% 1/5W	R142	NO USE			
	R92-1140-05		1% 1/5W	R143	RN14BE2H3652D	RES. METAL FILM	36 5KB 5% 1	1/2W
R055	R92-1131-05	RES. MRTAL FILM 430			RD14BB2C103J		10K 5% 1	1/6W
R 0 5 6	RD14BB2C122J	RES. CARBON 1.2K	5% 1/6W	R144	KD14BBZC1U3J	RES. CARBON	101 04 1	. / 0 "
R 0 5 7	RD14BB2C101J	RES. CARBON 100	5% 1/6W				TION AMBITET	7 P D
R 0 5 8	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	U O O 1	NJM072D	FET INPUT OPERA		. E R
R 0 5 9	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	U 0 0 2	NJM7815A	IC, VOLTAGE REG		. p.n
R 0 6 0	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	0003	NJM072D	PET INPUT OPERA		. E K
R061	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	U 0 0 4	OPO7DP	OPERATIONAL AMP		
R 0 6 2	RD14BB2C122J	RES. CARBON 1.2K	5% 1/6W	U 0 0 5	OP07DP	OPERATIONAL AMP		
R063	RD14BB2C473J	RES. CARBON 47K	5% 1/6W	U O O 6	UPC4558C	OPERATIONAL AMP		
R 0 6 4	R92-1145-05	RES. METAL FILM 10K	1% 1/5W	U 0 0 7	NJM072D	FET INPUT OPERA	TION AMPLIFI	EK
R065	RD14DB3A101J	RES. CARBON 100	5% 1W					
R 0 6 6	R92-1132-05	RES. METAL FILM 712	1% 1/5W	0010	NJM7815A	IC, VOLTAGE REG	ULATOR	
R067	RD14BB2C104J	RES. CARBON 100K	5% 1/6W	U 0 1 1	UPC7915HA	IC, VOLTAGE REG		
R068	R92-1150-05	RES. METAL FILM 100K	1% 1/5W	0012	UPC4558C	OPERATIONAL AMP		
R069	R92-1141-05	RES. METAL FILM 4.7K	1% 1/5W	U 0 1 3	NJM872D	FET INPUT OPERA		IER
R070	R92-1141-05	RES. METAL FILM 150	1% 1/5W	U 0 1 4	HA17555PS	TIMER		
						PHOTO COUPLER		
R071	RD14BB2C471J			U 0 1 5	TLP521-1(A)	I WATA CAALFEK		
R 0 7 2	R92-1143-05	RES. METAL FILM 6.8K	1% 1/5W	,, , , , ,	n10 1500 05	DD6 6D41 D1401	ם עם .	
R 0 7 3	R92-1148-05	RES. METAL FILM 18K	1% 1/5₩		R12-1532-05	RES. SEMI FIXE		
R 0 7 4	RD14BB2C104J	RES. CARBON 100K	5% 1/6W		R12-4511-05	RES. SEMI FIXE		
R 0 7 5	RD14BB2C104J	RES. CARBON 100K	5% 1/6W		R12-2518-05	RES. SEMI FIXE		
R076	R92-1150-05	RES. METAL FILM 100K	1% 1/5W	V R O O 4	R12-4511-05	RES. SEMI FIXE		
R 077	R92-1141-05	RES. METAL FILM 4.7K	1% 1/5W	V R O O 5	R12-3522-05	RES. SEMI FIXE		
R078	R92-1137-05	RES. METAL FILM 150	1% 1/5W		R12-3523-05	RES. SEMI FIXE		
R079	RD14BB2C471J	RES. CARBON 470	5% 1/6W		R12-2513-05	RES. SEMI FIXE		
R 0 8 0	R92-1143-05	RES. METAL FILM 6.8K	1% 1/5W		R12-4508-05	RES. SEMI PIXE	50K B	
R081	R92-1148-05	RES. METAL FILM 18K	1% 1/5W		R12-2513-05	RES. SEMI FIXE		
R082	R92-1140-05	RES. METAL FILM 5.1K	1% 1/5W		R12-4508-05	RES. SEMI FIXE		
R083	RD14BB2C104J	RES. CARBON 100K	5% 1/6W			RES. SEMI FIXE		
R 0 8 4	R92-1150-05	RES. METAL FILM 100K	1% 1/5W	AKUII	R12-4508-05	AES. SERI FIAD		
			1% 1/5W		010 2F00 0F		0 1 R K P	
R085	R92-1136-05	RES. METAL FILM 82 RES. CARBON 100	5% 1/6W	V R U 2 U	R12-3522-05	RES. SEMI FIXE	) INK D	
R086	RD14BB2C101J							
R087	R92-1142-05	RES. METAL FILM 5.1K						
R088	R92-1145-05	RES. METAL FILM 10K	1% 1/5W					
R089	RD14BB2C333J	RES. CARBON 33K	5% 1/6W					

AMPLIFIER UNIT (PD110				REF.NO C202	CE04W1E470M	NAME & DESCR	47 20%	25 V 25 V
X73-17	/00-01			C203 C204	CE04W1E471M CE04W1E470M	CAP. ELECTRO CAP. ELECTRO	470 20% 47 20%	25 V
				C205	CF92V1H473J	CAP. POLYESTER	0.047 5%	50 V
	NAME & DESCRI	PTION		C206	CF92V1H103J	CAP. POLYESTER	0.01 5% 0.047 5%	50 V 50 V
	T SINK			C207 C208	CF92V1H473J CF92V1H103J	CAP. POLYESTER CAP. POLYESTER	0.01 5%	50 V
F01-0856-14 HEAT	T SINK			C209	CF92V1H473J	CAP. POLYESTER	0.047 5%	50 V
	(UNMOUNTED)	u 0v0		C210	CF92V1H103J	CAP. POLYESTER	0.01 5%	50 V
NO9-0623-04 SCRI 212-1018-05 TUBI	EW (PLASTIC)	M 3X8		C211 C212	CF92V1H473J	CAP. POLYESTER CAP. POLYESTER	0.047 5% 0.01 5%	50 V 50 V
	E (PLASTIC)			6212	CF92V1H103J	CAF. FULIESIER	0.01 0%	
		0.047 5%	5 O V	D001	S1 V B 2 O	DIODE		
		0.047 5% 330	5 O V 5 O V	D002	S1VB20	DIODE		
		10 20		D003 D004	DSA1A2 DSA1A2	DIODE DIODE		
COOS CEO4DW1E221M CAP.	. ELECTRO	220 20	2 2 5 V	D005	NO USE	D1000		
		470 10 20	35 V 25 V	D006	RD13F(B2)	DIODE ZENER	13 V	
		10 20		D007 D008	MTZ9.1JC 1SS132	DIODE ZENER DIODE	9 <b>V</b>	
	. ELECTRO	220 20	25 V	D009	RD13F(B2)	DIODE ZENER	13V	
		330	5 0 V	D010	MTZ9.1JC	DIODE ZENER	9 V	
		100 20 0.33 20			188132	DIODE	4.5V	
		4.7 20		D012 D013	MTZ4.7JA 188132	DIODE ZENER DIODE	4.51	
CO14 CE04W1E100M CAP.	. ELECTRO	10 20	% 25V		1SZ59(T)	DIODE ZENER	6.25 V	
		1 20 100P 5%			1SZ59(T)	DIODE ZENER	6.25V	
		100P 5% 1 20			188132	DIODE DIODE		
		100P 5%			188132 188132	DIODE		
C019 C90-0967-05 CAP		0.39	160V		188132	DIODE		
	. MYLAR	1000P 5%	100V		155132	DIODE		
CO21 NO USE CO22 CQ92P2A332J CAP	. MYLAR	3300P 5%	100V		188132 188132	DIODE		
CO23 NO USE					188132	DIODE		
CO24 CF92V1H332J CAP	. POLYESTER	3300P 5%	5 0 V	D024	188132	DIODE		
CO28 CC45CH1H1O1J CAP	. CERAMIC	100P 5%	5 0 V	D025 D026	188132 188132	DIODE		
CO29 NO USE	. OBKHIIIO	100. 0.	001	D027	188132	DIODE		
CO3O CC45CH1H1O1J CAP		100P 5%		D028	MTZ5.1JB	DIODE, ZENER	5 V	
		0.01 5% 100P 5%		D029	188132	DIODE DIODE, ZENER	5 V	
		0.01 5%	50 V	D030 D031	MTZ5.1JB DSA1A2	DIODE, ZENER	31	
C034 CF92V1H103J CAP	. POLYESTER	0.01 5%	5 0 V	D032	DSA1A2	DIODE		
		0.01 5%	50 V		0111000	DIADE		
		0.047 5% 0.01 5%	50 V 50 V	D040 D041	S1VB20 S1VB20	DIODE		
		0.047 5%	5 0 V	D042	DSA1A2	DIODE		
		0.047 5%	50 V	D043	DSA1A2	DIODE		
		0.047 5% 0.047 5%	50 V 50 V	D044 D045	DSA1A2 DSA1A2	DIODE		
		100P 5%	5 0 V	D046	MTZ6.2JB	DIODE ZENER	6.1V	
CO43 CC45CH1H1O1J CAP		100P 5%	5 0 V	D047	188132	DIODE		
	. POLYESTER . POLYESTER	4700P 5%	50V 50V		188132 188132	DIODE		
CO45 CF92V1H472J CAP	. PULIESIEM	41001 0#		D049 D050	188132	DIODE		
		0.047 5%	5 0 V	D051	RD10F(B2)	DIODE ZENER	1 0 V	
CO51 CF92V1H473J CAP	. POLYESTER		5 0 V 5 0 V			DIODE ZENER	1 0 V	
		330 0.01 5%		D053	188132 188132	DIODE DIODE		
		0.01 5%		D055	188132	DIODE		
CO55 CEO4W1E100M CAP		10 20		D056	188132	DIODE		
	P. ELECTRO P. POLYESTER	330 0.01 5%	5 O V 5 O V	D057	188132	DIODE		
	POLYESTER	0.01 5%		D058	188132 MTZ8.2JC	DIODE DIODE ZENER	9.6V	
C059 CE04W1E100M CAP	. ELECTRO	10 20		D060	188132	DIODE		
		0.01 5%		D061	188132	DIODE		
	P. CERAMIC P. POLYESTER	47P 5% 0.033 2%		D062	188132 188132	DIODE		
	CERAMIC	100P 5%		D064	188132	DIODE		
CO64 CF92V1H102J CAP		1000P 5%		D065	188132	DIODE		
	P. POLYESTER	0.01 5% 4700P 5%			01 11 0 0 0	DIADE		
	P. POLYESTER P. ELECTRO	10 20		D201 D202	S1VB20 S1VB20	DIODE		
	P. POLYESTER	0.01 5%	50 V	2202	-1.000			
C069 CF92V1H473J CAP	P. POLYESTER	0.047 52		P003	E40-0273-05	PIN CONNECTOR	2 P	
	P. ELECTRO	10 20 10 20		P004	E40-0273-05	PIN CONNECTOR	2 P	
CO71 CEO4AW1E100M CAP	P. ELECTRO	10 20	% 25V	P201	E40-0673-05	PIN CONNECTOR	6 P	
CO73 CF92V1H224J CAP	P. POLYESTER	0.22 57		P202	E40-0373-05	PIN CONNECTOR	3 P	
	P. CERANIC	100P 52		P203	E40-0373-05	PIN CONNECTOR	3 P	
	P. ELECTRO P. ELECTRO	10 20 470 20		P204 P205	E40-0673-05	PIN CONNECTOR PIN CONNECTOR	6 P 2 P	
ON O OPPURIONIN ONE	, DDLOIRO			P205	E40-0273-05 B40-0273-05	PIN CONNECTOR	2 P	
C201 CB04W1E471M CAP	P. ELECTRO	470 20	25 V					

RBF.NO	PARTS NO	NAME & DESCRIPTION	1		PARTS NO	NAME & DESCR		1 4
9001	2SD1406(Y)	TR, SI, NPN		R 0 6 5 R 0 6 6	RD14DB3A101J R92-1132-05	RES. CARBON RES. METAL FILM	100 5% 712 1%	1W 1/5W
0002	2SC2785(F)	TR. SI, NPN		R067	RD14BB2C104J	RES. CARBON	100K 5%	1/6W
0003	2SC2785(F)	TR. SI, NPN		R 0 6 8	R92-1150-05	RES. METAL FILM		1/5W
0004	25A1021(0)	TR. SI, PNP		R 0 6 9	R92-1141-05	RES. METAL FILM		1/5W
0005	28B1015(Y)	TR. SI, PNP		R 0 7 0	R92-1137-05	RES. METAL FILM		1/5W
0006	25A1175(F)	TR. SI, PNP		R 0 7 1	RD14BB2C471J	RES. CARBON	470 5%	1/6W
2007	28A1175(F)	TR. SI, PNP		R072	R92-1143-05	RES. METAL FILM		1/5W
0008 0009	2SC2481(0) 2SC3064(F)	TR. SI, NPN TR. SI, NPN		R073	R92-1061-05	JUMPING RES.	ZERO OHM 100K 5%	1/6W
2010	2SC2785(F)	TR. SI, NPN		R 0 7 4 R 0 7 5	RD14BB2C104J RD14BB2C104J	RES. CARBON RES. CARBON	100K 5%	1/6W
9011	2SC2785(F)	TR. SI, NPN		R076	R92-1150-05	RES. METAL FILM		1/5W
0012	2SC2459 (GR)	TR. SI, NPN		R077	R92-1141-05	RES. METAL FILM		1/5W
0013	2SC2481(0)	TR. SI, NPN		R 0 7 8	R92-1137-05	RES. METAL FILM		1/5W
0010	000450/01)			R079	RD14BB2C471J	RES. CARBON	470 5%	1/6₩
Q016 Q017	25K170(BL)	FET, N-CHANNEL		R 0 8 0	R92-1177-05	RES. FIXED		
4017	25K170(BL)	FET, N-CHANNEL		R081	R92-1061-05	JUMPING RES.	ZERO OHM	1 /54
9020	25K170(BL)	PET, N-CHANNEL		R 0 8 2 R 0 8 3	R92-1142-05	RES. METAL FILM RES. CARBON	5.1K 1% 100K 5%	1/5W 1/6W
0021	2SC2785(F)	TR. SI, NPN		R 0 8 4	RD14BB2C104J R92-1150-05	RES. METAL FILM		1/5W
Q022	2SC2481(0)	TR. SI, NPN		R 0 8 5	R92-1136-05	RES. METAL FILM		1/5W
				R 0 8 6	RD14BB2C101J	RES. CARBON	100 5%	1/6W
R 0 0 1	RD14BB2C101J		% 1/6W	R087	R92-1142-05	RES. METAL FILM		1/5W
R002	RD14BB2C101J		% 1/6W	R 0 8 8	R92-1145-05	RES. METAL FILM		1/5W
R 0 0 3 R 0 0 4	RD14DB3D471J R92-1161-05		X 2W X 1/4W	R089	RD14BB2C333J	RES. CARBON	33K 5%	1/6W
R 0 0 5	RD14DB2H512J		1/2W	R090	RD14BB2C333J	RES. CARBON	33K 5%	1/6W
R006	RD14BB2C102J		% 1/6W	R 0 9 1 R 0 9 2	NO USE RD14BB2C153J	RES. CARBON	15K 5%	1/6W
R007	RD14DB2H2R7J		% 1/2W	R093	RD14BB2C473J	RES. CARBON	47K 5%	1/6W
R008	RD14BB2C153J		% 1/6W	R 0 9 4	RD14BB2C473J	RES. CARBON	47K 5%	1/6W
R009	R92-1144-05		% 1/5W	R095	RD14BB2C471J	RES. CARBON	470 5%	1/6W
R010	R92-1144-05		% 1/5W					1./00
R 0 1 1 R 0 1 2	RD14DB3D471J		% 2W % 1/4W	R100	RD14BB2C101J	RES. CARBON	100 5%	1/6W
R013	R92-1161-05 RD14DB2H512J		% 1/2W	R101	RD14BB2C101J	RES. CARBON RES. CARBON	100 5% 3.9K 5%	1/6W 1/2W
R014	RD14BB2C102J		% 1/6W	R102 R103	RD14DB2H392J RD14BB2C103J	RES. CARBON	10K 5%	1/6W
R015	RD14DB2H2R7J		% 1/2W	R104	RD14BB2C153J	RES. CARBON	15K 5%	1/6W
R 0 1 6	RD14BB2C153J		% 1/6W	R105	RD14BB2C123J	RES. CARBON	12K 5%	1/6W
R 0 1 7	RD14BB2C682J		% 1/6W	R106	RD14BB2C332J	RES. CARBON	3.3K 5%	1/6W
R 0 1 8	R92-1138-05		% 1/5W	R107	RD14BB2C472J	RES. CARBON	4.7K 5%	1/6W
R019	R92-1131-05		% 1/5W	R108	R92-1152-05	RES. METAL FILM		1/5W
R O 2 O R O 2 1	R92-1139-05 R92-1140-05	RES. METAL FILM 3.09K 1 RES. METAL FILM 4.3K 1	% 1/5W % 1/5W	R109	RD14BB2C104J	RES. CARBON	100K 5% 2.2K 5%	1/6W 1/6W
N U Z I	K32-1140-03	abs. Herab Fibil 4.0a I	,	R110 R111	RD14BB2C222J R92-1149-05	RES. CARBON RES. METAL FILM		1/5W
R 0 2 4	RD14BB2C153J	RES, CARBON 15K 5	% 1/6W	R112	RD14BB2C682J	RES. CARBON	6.8K 5%	1/6W
R 0 2 5	RD14BB2C153J		% 1/6W	R113	R92-1151-05	RES. METAL FILM		1/5W
R 0 2 6	RD14BB2C243J		% 1/6W	R114	RD14BB2C470J	RES. CARBON	47 5%	1/6W
R 0 2 7	RD14BB2C121J		% 1/6W	R115	RD14BB2C104J	RBS. CARBON	100K 5%	1/6W
R028	RD14BB2C182J	_	% 1/6W	R116	RD14BB2C472J	RES. CARBON RES. CARBON	4.7K 5% 220K 5%	1/6W 1/6W
R 0 2 9 R 0 3 0	RD14BB2C181J		% 1/6W	R117 R118	RD14BB2C224J RD14BB2C103J	RES. CARBON	220K 5% 10K 5%	1/6W
R 0 3 1	RN14BE2E5101D RD14BB2C102J		2 1/6W	R119	RD14BB2C122J	RES. CARBON	1.2K 5%	1/6W
R 0 3 2	R92-1150-05		% 1/5W	R120	RD14DB3D472J	RES. CARBON	4.7K 5%	2 W
R 0 3 3	R92-1138-05		% 1/5W	R121	RD14BB2C104J	RES. CARBON	100K 5%	1/6W
R 0 3 4	RD14BB2C151J		% 1/6W	R122	R92-1076-05	RES. METAL GLAZ		1/2W
R 0 3 5	R92-1146-05		% 1/5W	R123	RD14BB2C472J	RES. CARBON	4.7K 5%	1/6W
R036	RN14BE2E5601D		1.5%1/4W 3% 1/6W	R124	RD14BB2C105J	RES. CARBON	1M 5%	1/6W
R 0 3 7 R 0 3 8	RD14BB2C102J R92-1150-05	RES. CARBON 1K 5 RES. METAL FILM 100K 1		R127	RD14BB2C911J	RES. CARBON	910 5%	1/6W
R039	R92-1138-05		1/5W	R128	R92-1133-05	RES. METAL FILM		1/5W
R 0 4 0	RD14BB2C221J	RES. CARBON 220 5	1/6W	R129	RD14BB2C472J	RES. CARBON	4.7K 5%	1/6W
R 0 4 1	R92-1147-05	RES. METAL FILM 16.2K 1		R130	RD14BB2C103J	RES. CARBON	10K 5%	1/6W
R 0 4 2	RN14BE2H1002D		.5%1/2W	R131	R92-1149-05	RES. METAL FILM		1/5W
R 0 4 3	RN14BE2H3652D	RES. METAL FILM 36.5KO.	5% 1/2W	R132	RD14BB2C102J	RES. CARBON	1K 5%	1/6W
R 0 4 4 R 0 4 5	RN 1 4 B E 2 H 3 6 5 2 D RN 1 4 B E 2 H 1 0 0 2 D	RES. METAL FILM 36.5KO. RES. METAL FILM 10K 0	5% 1/2W 1.5%1/2W	R133	RD14BB2C103J	RES. CARBON	10K 5% 10K 5%	1/6W 1/6W
R046	RN14BE2H3740D		.5%1/2W	R134	RD14BB2C103J	RES. CARBON	1 K 5%	1/6₩
R 0 4 7	RD14BB2C102J		1/6W	R135 R136	RD14BB2C102J RD14BB2C472J	RES. CARBON RES. CARBON	4.7K 5%	1/6W
R 0 4 8	RD14BB2C102J	RES. CARBON 1K 5	1/6W	R137	RD14BB2C102J	RES. CARBON	1K 5%	1/6W
R 0 4 9	R92-1134-05	RES. METAL FILM 1K 1	% 1/5W	R138	NO USE			
R 0 5 0	RD14BB2C102J		1/6W	R139	RD14DB3A330J	RES. CARBON	33 5%	1 W
R051	RD14BB2C102J		1/6W	R140	NO USE			1 / 0 11
R052	R92-1134-05		% 1/5W	R141	RD14DB2H102J	RES. CARBON	1 K 5 %	1/2W
R 0 5 3 R 0 5 4	RD14BB2C162J		7 1/6W	R142	NO USE RN14BE2H3652D	RES. METAL FILM	36 5¥0 55	1/2W
R 0 5 5	R92-1140-05 R92-1131-05		1 1/5W   1/5W   1/5W	R143 R144	RD14BB2C103J	RES. CARBON	10K 5%	1/6W
R056	RD14BB2C122J		1/6W	~144		VARDUR		
R 0 5 7	RD14BB2C101J		1/6W	0001	NJM072D	FET INPUT OPERA	TION AMPL	FIER
R 0 5 8	RD14BB2C102J	RES. CARBON 1K 5	5% 1/6W	U 0 0 2	NJM7815A	IC, VOLTAGE REG	ULATOR	
R 0 5 9	RD14BB2C102J		1/6W	0003	NJM072D	PET INPUT OPERA		IFIER
R060	RD14BB2C102J		1/6W	U 0 0 4	OPO7DP	OPERATIONAL AMP		
R 0 6 1 R 0 6 2	RD14BB2C102J		5% 1/6W	U005	0P07DP	OPERATIONAL AMP		
R 0 6 3	RD14BB2C122J RD14BB2C473J		5% 1/6W   5% 1/6W	U 0 0 6 U 0 0 7	UPC4558C NJM072D	OPERATIONAL AMP FET INPUT OPERA	TION AMPI	1 FIER
R 0 6 4	R92-1145-05		1 1/5W	0001		. D HIVE VERM		

REF. NO	PARTS NO	NAME & DESCRIPTION
U 0 1 0	NJM7815A	IC. VOLTAGE REGULATOR
U 0 1 1	UPC7915HA	IC, VOLTAGE REGULATOR
U O 1 2	UPC4558C	OPERATIONAL AMPRIFIER
U 0 1 3	NJM072D	FET INPUT OPERATION AMPLIFIER Timer Photo Coupler
U 0 1 4	HA17555PS	TIMER
U 0 1 5	TLP521-1(A)	PHOTO COUPLER
U 2 O 1	LM79L05ACZ	REGULATOR
U 2 O 2	LM79L05ACZ	REGULATOR
V R O 0 1	R12-1532-05	RES. SEMI FIXED 2K B
V R O 0 2	R12-4511-05	RRS. SEMI FIXED SOK B
A B U U 3	P12-2518-05	RES. SEMI FIXED 50K B RES. SEMI FIXED 5K B
V D O O 4	P12-4511-05	RES. SEMI FIXED 50K B
		RES. SEMI FIXED 10K
		RES. SEMI PIXED 20K
		RES. SEMI FIXED 3K B
		RES. SEMI FIXED 50K B
VR009	R12-1531-05	RES. SEMI FIXED 3K B
		RES. SEMI FIXED 50K B
VR 0 1 1	R12-4511-05	RES. SEMI FIXED 50K B
V R O 20	R12-3522-05	RES. SEMI FIXED 10K B

## **DIGITAL PANEL METER UNIT (PD110-5D)**

	X	76-1260-09	
CO01 CO02 CO03 CO04 CO05 CO06 CO07	PARTS NO B33-4072-00 J25-5119-02 CE04CW1A470M CE04CW1A100M C91-1204-05 CF92V1H473J CF92V1H104J CM93BD2A101J CF92V1H223J CF92V1H223J C91-1205-05	NAME & DESCRIPTION WIRE ASSY PCB (UNMOUNTED) CAP. ELECTRO 47 CAP. ELECTRO 10 CAP. CERAMIC 0.22 CAP. POLYESTER 0.04 CAP. POLYESTER 0.1 CAP. MICA 100P CAP. POLYESTER 0.02 CAP. CERAMIC 0.12	20% 10° 20% 10° 15° 7 5% 50° 5% 50° 5% 10°
C009 C010 C011	NO USE CE04CW1V2R2M C91-0591-05	CAP. CERAMIC 0.1  CAP. BLECTRO 2.2  CAP. CERAMIC 0.22	20% 35
C 0 3 1 C 0 3 2 C 0 3 3 C 0 3 4 C 0 3 5 C 0 3 6 C 0 3 7	CE04CW1A470M CE04CW1A100M C91-1204-05 CF92V1H473J CF92V1H104J CM93BD2A101J CF92V1H223J	CAP. ELECTRO 47 CAP. BLECTRO 10 CAP. CERAMIC 0.22 CAP. POLYESTER 0.04 CAP. POLYESTER 0.1 CAP. MICA 100P CAP. POLYESTER 0.02	5% 50° 5% 10°
0001 0002 0003 0004 0005 0006 0007	GL9D03D GL9D03D GL9D03D GL9D03D GL9D03D LT9002D 1SS132 1S1544A 1SS132	DIODE DIODE DIODE DIODE DIODE DIODE DIODE	
D 0 3 2 D 0 3 3 D 0 3 4 D 0 3 5	GL9D03D GL9D03D GL9D03D LT9002D	DIODE DIODE LED	
P003 P004	E31-2513-15 E31-2512-15	LEAD WIRE WITH CONNEC	
P204	E31-2520-15	LEAD WIRE WITH CONNE	CT OR
9001 9002 9003 9004	DTC144EF DTC144EF DTA124EF 2SK117(GR)	TR. SI, NPN TR. SI, NPN TR. SI, PNP FET. N-CHANNEL	
R 0 0 1 R 0 0 2 R 0 0 3 R 0 0 4 R 0 0 5 R 0 0 6	RN14BK2C4703F RN14BK2C1103F RD14BB2C182J RN14BE2E1502F RN14BE2E1002F RD14BB2C161J	RES. METAL FILM 470K RES. METAL FILM 110K RES. CARBON 1.8K RES. METAL FILM 15K RES. METAL FILM 10K RES. CARBON 160	1% 1/6 1% 1/6 5% 1/6 1% 1/4 1% 1/4 5% 1/6
R 0 0 9 R 0 1 0 R 0 1 1 R 0 1 2 R 0 1 3 R 0 1 4 R 0 1 5 R 0 1 6 R 0 1 7 R 0 1 8	RD14BB2C123J RD14BB2C333J RD14BB2C104J RD14BB2C104J RD14BB2C103J R92-1061-05 RD14BB2C301J RD14BB2C301J RD14BB2C103J RD14BB2C103J RD14BB2C103J RD14BB2C103J	RES. CARBON 12 K RES. CARBON 33 K RES. CARBON 10 0 K RES. CARBON 10 0 K RES. CARBON 10 K JUMPING RES. ZERO RES. CARBON 30 0 RES. CARBON 30 0 RES. CARBON 10 K RES. CARBON 10 K RES. CARBON 10 K RES. CARBON 10 K RES. CARBON 10 0 K	5% 1/6 5% 1/6 5% 1/6 5% 1/6 5% 1/6 5% 1/6 5% 1/6 5% 1/6 5% 1/6 5% 1/6
R 0 2 0 R 0 2 1 R 0 2 2 R 0 2 3 R 0 2 4 R 0 2 5 R 0 2 6 R 0 2 8 R 0 2 8	NO USE RN14BK2C2001F RN14BK2C1501F RN14BK2C1301F RN14BK2C2201F RN14BC2E1002F RD14BB2C161J RD14BB2C364J R92-1146-05 R92-1143-05	RES. METAL FILM 2K RES. METAL FILM 1.5K RES. METAL FILM 1.3K RES. METAL FILM 2.2K RES. METAL FILM 10K RES. CARBON 160 RES. CARBON 360K RES. METAL FILM 11K RES. METAL FILM 11K	1% 1/6 1% 1/6 1% 1/6 1% 1/6 1% 1/4 5% 1/6 5% 1/6 1% 1/5 1% 1/5
R033	NO USE RN14BK2C4703F RN14BK2C1103F RD14BB2C182J RN14RF2F1502F	RES. METAL FILM 470K RES. METAL FILM 110K RES. CARBON 1.8K DRS. MRTAL FILM 15K	

R035

RN14BE2E1002F

RES. METAL FILM 10K

REF. NO	PARTS NO	NAME & DESCRIPT	ION
R035	RN14BE2E1002F	NAME & DESCRIPT RES. METAL FILM 10	K 1% 1/4W
		RES. CARBON 16	
		RES. CARBON 39	
		abo. Chabon Co	
R 0 4 8	PN14RR2C104T	RES. CARBON 10	OK 5% 1/6W
	NO USE	RES. CHRECK 10	UR UM 1701
		RES. METAL FILM 2.	67K 1% 1/4W
KUSU	KN14BCZEZO(1F	RES. HEIAL FILH 2.	014 14 1/4m
2055	D.W.1.4.D.G.G.D.1.G.G.G.D.		v 10 1/10
		RES. METAL FILM 18	
RU56	RD14BB2C161J	RES. CARBON 16	0 5% 1/6W
		OPBRATINAL AMPLIFI	
U 0 0 2	LM336Z2.5	2.5V REFERENCE DIO	DE
U 0 0 3	LM339N	QUAD COMPARATOR	
U 0 8 4	MC14011BCP	QUAD 2-INPUT NAND	GATE
U 0 3 1	TSC71N7CPL-A	OPERATINAL AMPLIFI	ER
		2.5V REFERENCE DIO	
		2.07	
V D O O 1	R19-3518-05	RES. SEMI FIXED 10	K R
		RES. SEMI FIXED 50	
		RES. SEMI FIXED 10	
*****	WIE-0300-03	RES. SEAT PIRED IU	U D
U D 0 2 1	D19 2510 05	RES. SEMI FIXED 10	V 0
V R U J Z	K 14-U 0 0 8-U 0	RES. SEMI FIXED 50	U

#### **DIGITAL PANEL METER UNIT (PD110-3D)** X76-1260-11 REF. NO PARTS NO NAME & DESCRIPTION E33-4072-00 J25-5119-02 WIRE ASSY PCB (UNMOUNTED) CAP. BLECTRO CAP. BLECTRO CAP. CERAMIC CAP. POLYESTER C001 CE04CW1A470M 20% 10 V C002 CE04CW1A100M 10 20% 10 V C91-1204-05 0.22 C003 150 V C004 CF92V1H473J 0.047 5% CAP. POLYESTER CAP. MICA CAP. POLYESTER C 0 0 5 CF92V1H104J CM93BD2A101J 0.1 5 % 5 % 50 V 100P 100V C006 CF92V1H223J 0.022 5% C008 C91-1205-05 CAP. CERAMIC 50 V C009 CB04CW1V2R2M 20% C011 C91-0591-05 CAP. CERAMIC 0.22 50 V CAP. ELECTRO CAP. CERAMIC 10 0.22 10 V 150 V C032 CE04CW1A100M 20% C033 C91-1204-05 CAP. CERANIC CAP. POLYESTER CAP. POLYESTER CAP. MICA CAP. POLYESTER CF92V1H473J 0.047 5% C034 C035 CF92V1H104J 0.1 5% 50 V 100P C036 CM93BD2A101J 100V C037 CF92V1H223J 0.022 5% D001 CLODISD DIODE D002 GL9D03D DIODE GL9D03D D003 DIODE D 0 0 4 GL9D03D DIODE D 0 0 5 LT9002D L.R.D. DIODE D006 188132 D007 151544A DIODE 0008 151544A DIODE D009 188132 DIODE D032 GL9D03D DIODE D033 GL9D03D DIODE DIODE D035 LT9002D LED LEAD WIRE WITH CONNECTOR P004 E31-2512-15 LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR E31-2520-15 TR. SI, NPN TR. SI, NPN TR. SI, PNP 0001 DTC144EF DTC144EF 0002 0003 DTA124EF FET. N-CHANNEL 0004 2SK117(GR) RES. METAL FILM 470K RES. METAL FILM 110K RES. CARBON 1.8K 1% 1% 5% 1/6W 1/6W R001 RN14BK2C4703F R002 RN14BK2C1103F RD14BB2C182J 1/6W R003 RES. METAL FILM 15K RES. METAL FILM 10K 1/4W 1/4W RN14BE2E1502F 1 % R 0 0 5 RN14BE2E1002F RES. CARBON R006 RD14BB2C161J 160 R009 RD14BB2C123J RES. CARBON 12K 5% 1/6W 1/6W RES. CARBON RES. CARBON 5 X R010 RD14BB2C333J 33K 1/6W R011 RD14BB2C104J 100K 1/6W RD14BB2C104J RES. CARBON 100K R013 R014 RD14BB2C103J R92-1061-05 RES. CARBON JUMPING RES. 1.0 K 5% 1/6W ZERO OHM RD14BB2C301J RD14BB2C301J R015 RES. CARBON 5% 1/6W RES. CARBON RES. CARBON RES. CARBON R016 300 10K 5% 1/6W 1/6W RD14BB2C103J 5% RD14BB2C104J RN14BC2E1001F NO USE R018 100K R019 RES. METAL FILM 1K 1/4W R 0 2 0 R021 RN14BK2C2001F RES. METAL FILM 1.5K RES. METAL FILM 1.3K RES. METAL FILM 2.2K R 0 2 2 RN14BK2C1501F RN14BK2C1301F 1% 1/6W 1/6W R023 1 % 1 % 1/6W R024 1/4W 1/6W 1/6W 1/5W R025 RN14BC2E1002F RES. METAL FILM 10K RD14BB2C161J R026 160 360 K 5% 5% RES. CARBON R027 RD14BB2C364J RES. CARBON R92-1146-05 R92-1143-05 R028 RES. METAL FILM 11K 1/5W R029 RES. METAL FILM 6.8K R030 R031 RN14BK2C4703F RES. METAL FILM 470K 1/6W R 0 3 2 RN14BK2C1103F RD14BB2C182J RES. METAL FILM 110K RES. CARBON 1.8K 1 % 5 % 1/6W 1/6W R033 1.8K RES. METAL FILM 15K

REF. NO	PARTS NO	NAME & DESCRIPTION	
R036	RD14RB2C161J	RES. CARBON 160 5%	1/6W
0007	DD14BB2C201T	RES. CARBON 390 5%	
KUSI	KD14BB2C3313	RES. CARBON 330 DA	1/0#
R 0 4 8	RD14BB2C104J	RES. CARBON 100K 5%	1/6W
R049	NO USE		
P050	DN14RC2R1501R	RES. METAL FILM 1.5K 1%	1/4W
N 0 0 0	a NI 4 DOZ DIOUII	REG. HEIRE LIEU I.O. I.	2, 2
		PR6 MR641 PILM 10M 19	1 / 4 11
		RES. METAL FILM 18K 1%	
R056	RD14BB2C161J	RES. CARBON 160 5%	1/6W
11 0 0 1	TSC7187CPI - A	OPERATINAL AMPLIFIER	
0002	LN33642.5	2.5V REFERENCE DIODE	
0003	LM339N	QUAD COMPARATOR	
U 0 0 4	MC14011BCP	QUAD COMPARATOR QUAD 2-INPUT NAND GATE	
11 0 2 1	TCC7107CD1 - A	OPERATINAL AMPLIFIER	
0031	1301101011-1	2.5V REFERENCE DIODE	
0.032	LM33042.3	2.34 KEPEKENCE DIODE	
VR001	R12-3518-05	RES. SEMI FIXED 10K B	
VROD2	R12-0568-05	RES. SEMI FIXED 500	
		RES. SEMI PIXED 100 B	
* * * * * * *	KIZ-0000-00	aco. obiii iikbb 100 b	
		PPS	
		RES. SEMI FIXED 10K B	
VR032	R12-0568-05	RES. SEMI FIXED 500	

## AMPLIFIER UNIT (PD110-3/3D/5/5D)

X77-1400-04				
EF.NO	PARTS NO J19-1641-14 J25-5158-23	NAME & DESCRI HOLDER FOR LED PCB (UNMOUNTED)		
C001 C002	CF92V1H103J NO USB	CAP. POLYESTER	0.01 5% 50	
C003	CK45B1H102K	CAP. CERAMIC	1000P 10% 50V	
C 0 0 4	CF92V1H103J	CAP. POLYESTER	0.01- 5% 50V	
C007	CE04W1H470M	CAP. ELECTRO	47 20% 50%	
D001	DSA1A2	DIODE		
D002	DSA1A2	DIODE		
D003	DSA1A2	DIODE		
D004	DSA1A2	DIODE		
D005	RD6.2EB3	DIODE		
D006	188132	DIODE		
D007	188132	DIODE		
D008 D009	188132 188132	DIODE DIODE		
D019	CSM2B2A30	SCR		
D011	DSA1A2	DIODE		
D012	188132	DIODE		
D013	LN222RP	LED		
D014	DSA1A2	DIODE		
D015	DSA1A2	DIODE		
D016	188132	DIODE		
D017	188132	DIODE		
P005	E40-0273-05	PIN CONNECTOR	2 P	
P006	E40-1373-05	PIN CONNECTOR	13 P	
P007	E40-0273-05	PIN CONNECTOR	2 P	
P008	E40-0373-05	PIN CONNECTOR	3 P	
P009	E40-0273-05	PIN CONNECTOR	2 P	
P010	E40-0273-05	PIN CONNECTOR	2 P 2 P	
P011	E40-0273-05	PIN CONNECTOR		
P012	E40-0273-05	PIN CONNECTOR	2 P	
P302 P303	E40-0273-05 NO USE	PIN CONNECTOR	2 P	
P304	E40-0273-05	PIN CONNECTOR	2 P	
P305	E40-0273-05	PIN CONNECTOR	2 P	
0001	2SC2481(0) 2SA1175(F)	TR. SI, NPN TR. SI, PNP		
0003	2SC2785(F)	TR. SI, PRP		
0004	2SC2785(F) 2SC2785(F)	TR. SI, NPN		
2005	2SA1175(F)	TR. SI, PNP		
R001	RD14DB3A102J	RES. CARBON	1K 5% 1W	
R002	CE04W1C101M	CAP. ELECTRO	100 20% 16	
R002	RD14DB3A102J	RES. CARBON	1K 5% 1W	
R003	RN14BE2E3831D RN14BE2H4022D	RES. METAL FILM RES. METAL FILM	3.83K 0.5%1/40 40.2K0.5% 1/20	
R 0 0 4		REA. DEIBL FILE		

R006 CE04W1C101W CAP. ELECTRO 100 20%  R006 RN14BC2E1000F RES. METAL FILM 100 1%  R007 RN14BC2H7500F RES. METAL FILM 750 1%  R008 RD14BB2C102J RES. CARBON 1K 5%  R019 RD14BB2C392J RES. CARBON 3.9K 5%  R010 RD14BB2C471J RES. CARBON 470 5%	16V 1/4W 1/2W 1/6W 1/6W
R007 RN14BC2H7500F RES. METAL FILM 750 1% R008 RD14BB2C102J RES. CARBON 1K 5% R009 RD14BB2C392J RES. CARBON 3.9K 5% R010 RD14BB2C471J RES. CARBON 470 5%	1/2W 1/6W 1/6W
R010 RD14BB2C471J RES. CARBON 470 5%	
	1/6W 1/6W 1/6W
R013 RD14BB2C471J RES. CARBON 470 5% R014 RD14BB2C102J RES. CARBON 1K 5% R015 RD14BB2C102J RES. CARBON 1K 5%	1/6W 1/6W 1/6W 1/6W
R017 RD14BB2C103J RES. CARBON 10K 5% R018 RD14BB2C221J RES. CARBON 220 5% R019 RD14BB2C102J RES. CARBON 1K 5%	1/6W 1/6W 1/6W
R021 RD14BB2C182J RES. CARBON 1.8K 5% R022 RD14BB2C621J RES. CARBON 620 5% R023 RD14BB2C101J RES. CARBON 100 5%	1/6W 1/6W 1/6W 1/6W
R025 RD14DB2H102J RES. CARBON 1K 5% R026 RD14BB2C103J RES. CARBON 10K 5% R027 RD14BB2C512J RES. CARBON 5.1K 5%	1/2W 1/2W 1/6W 1/6W
R031 RN14BE2H4022D RES. METAL FILM 40.2K0.5% R032 RD14BB2C183J RES. CARBON 18K 5%	1/6W 1/2W 1/6W
	1/6W 1/4W
\$002 \$40-1518-05 PUSH SWITCH \$003 \$40-1518-05 PUSH SWITCH U001 NJM311D COMPARATOR	
U002 UPC4558C OPERATIONAL AMPRIFIER VR001 R12-1524-05 RES. SEMI FIXED 2.5K	

#### **CURRENT DIFECTER UNIT (PD110-5)**

X81-1850-02				
REF.NO	PARTS NO	NAME & DESCRIPTION		
	J25-5135-14	PCB (UNMOUNTED)		
	212-1018-05	TUBE (PLASTIC)		
J011	E23-0555-05	G. TERHINAL		
J012	E23-0555-05	G. TERMINAL		
J013	B23-0555-05	G. TERMINAL		
P207	B40-0273-05	PIN CONNECTOR 2 P		
P208	E40-0373-05	PIN CONNECTOR 3 P		
R010	R92-1173-05	RES. FIXED		

#### **CURRENT DIFECTER UNIT (PD110-5D)**

X81-1850-03				
REF.NO	PARTS NO	NAME & DESCRIPTION		
	J25-5135-14	PCB (UNMOUNTED)		
	212-1018-05	TUBE (PLASTIC)		
J011	E23-0555-05	G. TERMINAL		
J012	B23-0555-05	G. TERMINAL		
J013	E23-0555-05	G. TERMINAL		
P 2 0 5	E40-0273-05	PIN CONNECTOR 2 P		
P 2 0 6	NO USE			
P 2 0 7	E40-0273-05	PIN CONNECTOR 2 P		
P 2 0 8	E40-0373-05	PIN CONNECTOR 3 P		
R 0 1 0	R92-1173-05	RES. FIXED		

VO4 4050 00

#### **CURRENT DIFECTER UNIT (P110-3)**

X81-1850-04			
REF. NO	PARTS NO	NAME & DESCRIPTIO	N
	J25-5135-14	PCB (UNMOUNTED)	
	212-1018-05	TUBE (PLASTIC)	
J011	E23-0555-05	G. TERMINAL	
J012	E23-0555-05	G. TERMINAL	
J013	B23-0555-05	G. TERMINAL	
P207	E40-0273-05	PIN CONNECTOR 2 P	
P 2 0 8	E40-0373-05	PIN CONNECTOR 3 P	
R 0 1 0	R92-1174-05	RES. FIXED	

X81-1980-09

RES. FIXED

## CONSTANT I UNIT (PD110-5/5D)

R010 R92-1174-05

REF. NO	PARTS NO	NAME & DESCRIPTION
	J25-5135-14	PCB (UNMOUNTED)
	212-1018-05	TUBE (PLASTIC)
J011	E23-0555-05	G. TERMINAL
J012	E23-0555-05	G. TERMINAL
J013	E23-0555-05	G. TERMINAL
P205	E40-0273-05	PIN CONNECTOR 2 P
P206	NO USE	
P 2 0 7	E40-0273-05	PIN CONNECTOR 2 P
P 2 0 8	E40-0373-05	PIN CONNECTOR 3 P

#### **CONSTANT I UNIT (PD110-3/3D)**

X81-1980-11				
EF.NO	PARTS NO	NAME & DESC	RIPTION	
	E33-4110-00	WIRE ASSY		
	J25-5157-03	PCB (UNMOUNTED)	)	
	212-1018-05	TUBE (PLASTIC)		
C014	CF92V1H473J	CAP. POLYESTER	0.047 5%	50
D015	RD24F(B2)	DIODE		
D016	RD24F(B2)	DIODE		
D 0 3 3	C R D E - 5 0 1	DIODE		
P013	E40-0673-05	PIN CONNECTOR	6 P	
P307	E40-0773-05	PIN CONNECTOR	7 P	
	E40-0873-05	PIN CONNECTOR	8 P	
	E40-0473-05	PIN CONNECTOR	4 P	
	E40-0473-05	PIN CONNECTOR	4 P	
	E40-0273-05	PIN CONNECTOR	2 P	
P312	E40-0373-05	PIN CONNECTOR	3 P	
0007	2SC3182(R)	TR. SI, NPN		
	2SA1265(R)	TR. SI, PNP		
0009	2SC3066(F,G)	TR. SI, NPN		
R 0 0 9	RD14DB2H101J	RES. CARBON	100 5%	1/2
R015	RD14DB3F912J	RES. CARBON	9.1K 5%	3 W
R016	RD14DB3F912J	RES. CARBON	9.1K 5%	3 W
R017	NO USE			
R018		RES. CARBON	4.3K 5%	1/6
R019	RD14DB2H330J	RES. CARBON	33 5%	1/2
	NO USE			
R021		JUMPING RES	ZERO OHM	
R022	RD14BB2C102J	RES. CARBON	1K 5%	1/6

#### **RECTIFIER UNIT (PD110-5/5D)**

#### X81-2110-00 NAME & DESCRIPTION REF. NO PARTS NO WIRE ASSY PCB (UNMOUNTED) TUBE (PLASTIC) CAP. POLYESTER 0.047 5% E33-4110-00 J25-5157-03 212-1018-05 C014 CF92V1H473J 50 V RD24F(B2) DIODE RD24F(B2) DIODE D033 CRDE-501 DIODE P013 E40-0673-05 PIN CONNECTOR 6 P PIN CONNECTOR PIN CONNECTOR P308 E40-0873-05 P309 E40-0473-05 4 P PIN CONNECTOR E40-0273-05 E40-0373-05 PIN CONNECTOR PIN CONNECTOR P311 P312 TR. SI, NPN TR. SI, PNP TR. SI, NPN Q007 2SC3182(R) Q008 2SA1265(R) Q009 2SC3066(F,G) 1/2W 100 R009 RD14DB2H101J RES. CARBON R015 RD14DB3F912J RES. CARBON RES. CARBON 9.1K 9.1K R016 R017 RD14DB3F912J NO USE RD14BB2C432J RES. CARBON 4.3K 5% 5% 1/2W R019 RD14DB2H330J RES. CARBON 33 NO USE R92-0150-05 R020 R021 JUMPING RES. ZERO OHM 1/6W RD14BB2C102J RES. CARBON

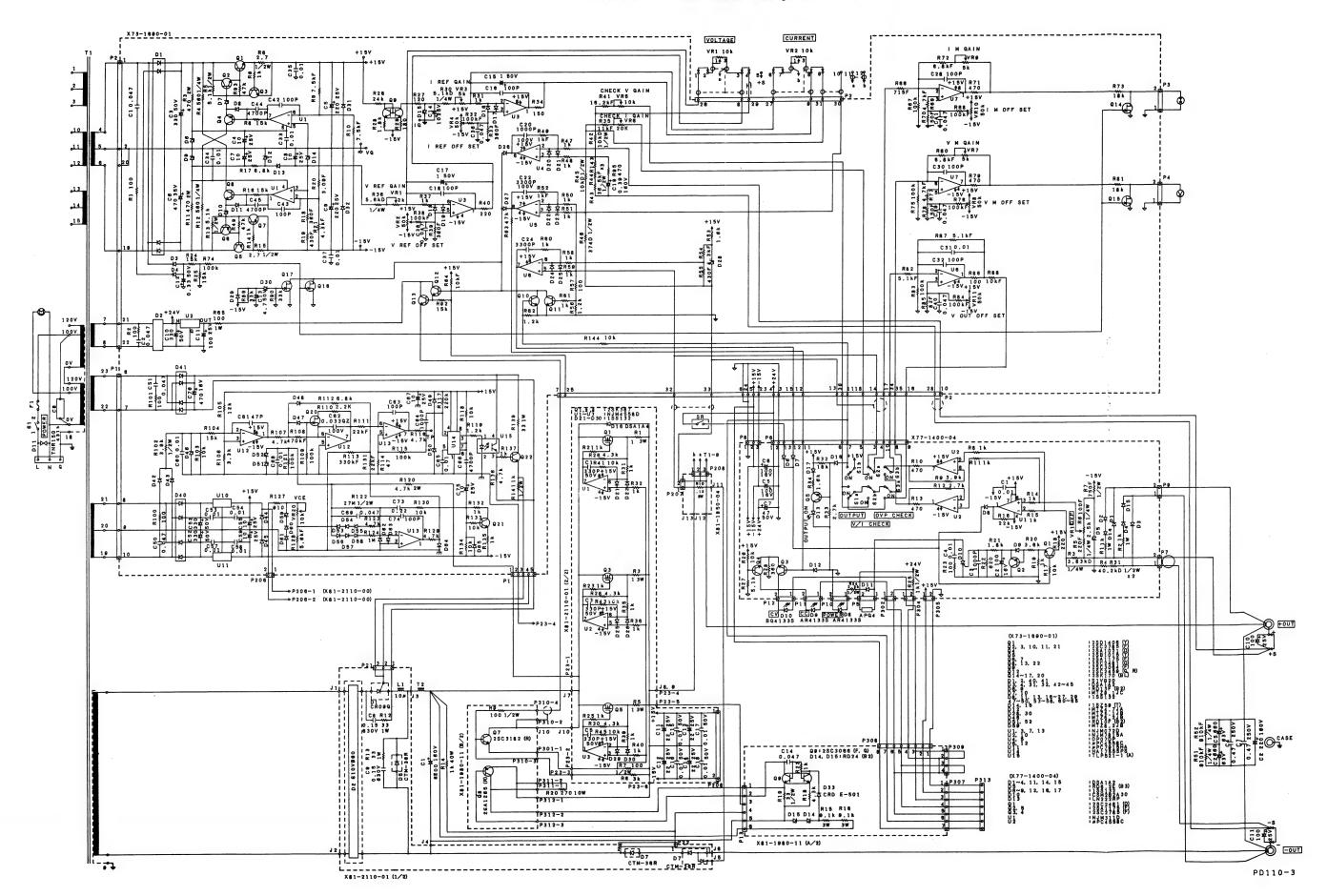
RECT	RECTIFIER UNIT (PD110-3/3D)				
	X8	1-2110-01			
COO1 COO2 COO3 COO4 COO5	PARTS NO E33-4117-00 J25-5164-03 212-1018-05 CC45SL1H331J CC45SL1H331J CC45SL1H331J CC45SL1H331J CC45SL1H331J	NAME & DESCRIPTION WIRE ASSY PCB (UNMOUNTED) TUBE (PLASTIC) CAP. CERAMIC 330F	2 5% 50V 2 5% 50V 2 5% 50V 3 50 V		
C008	CF93AN2J183K	CAP. POLYESTER 0.01			
C009 C010 C011 C012 C013 C014 C015 C016 C017	CF93AN2J103K NO USE CE04W1E220M CE04W1E220M CE04W1E220M CE04W1E220M CK45F1H103Z CK45F1H103Z CK45F1H103Z CK45F1H103Z	CAP. POLYESTER 0.01  CAP. ELECTRO 22  CAP. ELECTRO 22  CAP. ELECTRO 22  CAP. ELECTRO 22  CAP. CERAMIC 0.01  CAP. CERAMIC 0.01  CAP. CERAMIC 0.01  CAP. CERAMIC 0.01  CAP. CERAMIC 0.01	20% 25 V 20% 25 V 20% 25 V 20% 25 V 50 V 50 V		
D 0 0 5 D 0 0 6	CTM-36R CTM-36R	DIODE			
D016	DSA1A4	DIODE			
D021 D022 D023 D024 D025 D026 D027 D028 D029 D030	188132 188132 188132 188132 188132 188132 188132 188132 188132 188132	DIODE DIODE DIODE DIODE DIODE DIODE DIODE			
J001 J002 J003 J004 J005 J006 J007 J008 J009	E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05	G. TERMINAL	3		
J014	E23-0556-05	G. TERMINAL			
L001	L39-0525-05	COIL			
P021 P022 P023	E 4 0 - 0 3 7 3 - 0 5 E 4 0 - 0 2 7 3 - 0 5 E 4 0 - 0 6 7 3 - 0 5	PIN CONNECTOR 3 P PIN CONNECTOR 2 P PIN CONNECTOR 6 P			
P206	E40-0273-05	PIN CONNECTOR 2 P			
9001 9002 9003 9004 9005	25 K 3 B 7 25 K 3 B 7 25 K 3 B 7 25 K 3 B 7 25 K 3 B 7	FET, N-CHANNEL FET, N-CHANNEL FET, N-CHANNEL FET, N-CHANNEL FET, N-CHANNEL			
R001 R002 R003 R004 R005 R006 R007	R92-1185-05 R92-1185-05 R92-1185-05 R92-1185-05 R92-1185-05 R92-1185-05 R914BB2C302J RD14DB2H101J	RES. FIXED RES. FIXED RES. FIXED RES. FIXED RES. FIXED RES. CARBON 3K RES. CARBON 100	5% 1/6W 5% 1/2W		
R013 R014	RD14DB3A101J RD14DB3A101J	RES. CARBON 100 RES. CARBON 100	5% 1W 5% 1W		
R019 R020 R021 R022 R023 R024 R025	R92-0150-05 R92-0150-05 RD14BB2C102J RD14BB2C102J RD14BB2C102J RD14BB2C102J RD14BB2C102J	JUMPING RES. ZERO JUMPING RES. ZERO RES. CARBON 1K			

RBF.NO	PARTS NO	NAME & DESC	RIPTION	
R 0 2 6	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R027	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R 0 2 8	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R 0 2 9	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R 0 3 0	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R 0 3 1	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R 0 3 2	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R 0 3 3	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R 0 3 4	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R035	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R 0 3 6	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R037	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R038	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R 0 3 9	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R 0 4 0	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R 0 4 1	RD14BB2C103J	RES. CARBON	10 K	5% 1/6W
R 0 4 2	RD14BB2C103J	RES. CARBON	10 K	5% 1/6W
R 0 4 3	RD14BB2C103J	RES. CARBON	10 K	5% 1/6W
	RD14BB2C103J	RES. CARBON	10K	5% 1/6W
R 0 4 5	RD14BB2C103J	RES. CARBON	10K	5% 1/6W
U 0 0 1	NJM4558D	IC, OP AMP		
U 0 0 2		IC, OP AMP		
U 0 0 3	NJM4558D	IC, OP AMP		

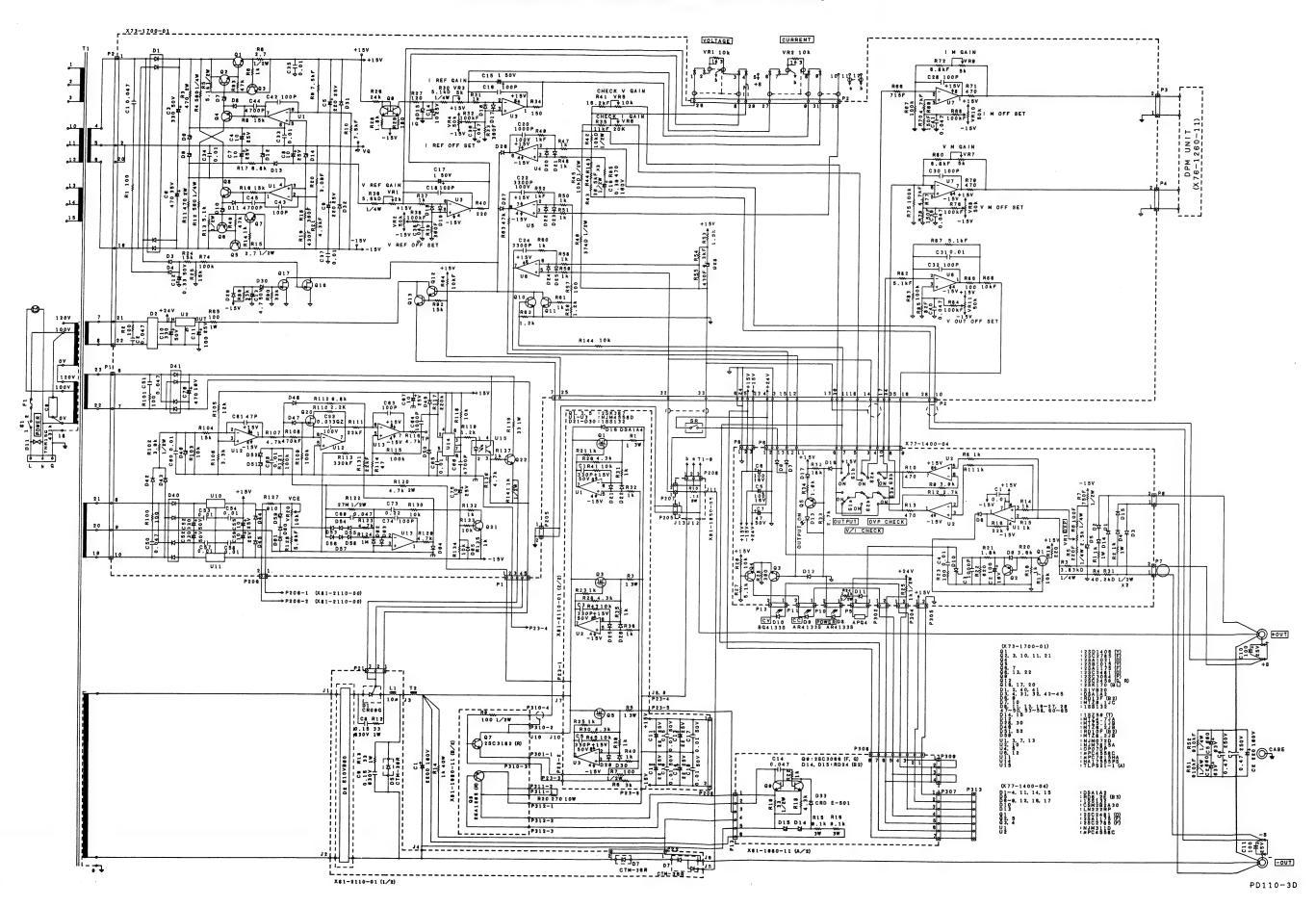
X81-1850-05						
REF.NO	PARTS NO E33-4117-00 J25-5164-03 212-1018-05	NAME & DESCRI WIRE ASSY PCB (UNMOUNTED) TUBE (PLASTIC)	IPTION			
C001 C002	CC45SL1H331J NO USE	CAP. CERAMIC	330P 5% 50V			
C003 C004	CC45SL1H331J NO USE	CAP. CERAMIC	330P 5% 50V			
C005		CAP. CERAMIC	330P 5% 50V			
C008	CF93AN2J103K CF93AN2J103K	CAP. POLYESTER CAP. POLYESTER				
C 0 1 0 C 0 1 1	NO USE CE04W1E220M	CAP. ELECTRO	22 20% 25V			
C012 C013	CE04W1E220M CE04W1E220M	CAP. ELECTRO CAP. BLECTRO	22 20% 25V 22 20% 25V			
C014 C015	CE04W1E220M CK45F1H103Z	CAP. BLECTRO CAP. CERAMIC	22 20% 25V 0.01 50V			
C016 C017	CK45F1H103Z CK45F1H103Z	CAP. CERAMIC CAP. CERAMIC	0.01 50V 0.01 50V			
C018	CK45F1H103Z	CAP. CERAMIC	0.01 50V			
D005 D006	CTM - 36 R CTM - 36 R	DIODE				
D016	DSA1A4	DIODE				
D021 D022	1 SS 1 3 2 1 SS 1 3 2	DIODE				
D025 D026	1 \$ \$ 1 3 2 1 \$ \$ 1 3 2	DIODE				
D029 D030	1 SS 1 3 2 1 SS 1 3 2	DIODE				
J001 J002	E23-0555-05 E23-0555-05	G. TERMINAL G. Terminal				
J003 J004	E23-0555-05 E23-0555-05	G. TERMINAL G. TERMINAL				
J005 J006	E23-0555-05 E23-0555-05	G. TERMINAL G. TERMINAL				
J007 J008	E23-0555-05 E23-0555-05	G. TERMINAL G. TERMINAL				
J009 J014	B23-0556-05 B23-0556-05	G. TERMINAL G. TERMINAL				
L001	L39-0525-05	COIL				
P021	E40-0373-05	PIN CONNECTOR	3 P			
P 0 2 2 P 0 2 3	E40-0273-05 E40-0673-05	PIN CONNECTOR PIN CONNECTOR	2 P 6 P			
P 2 0 6	E40-0273-05	PIN CONNECTOR	2 P			
0002	2 SK 3 B 7 No USE	FET, N-CHANNEL				
9003 9004	2 SK 3 B 7 NO USE	FET, N-CHANNEL				
0005	2 S K 3 8 7	FET, N-CHANNEL				
R 0 0 1 R 0 0 2	R92-1185-05 NO USE	RES. FIXED				
R003 R004	R92-1185-05 NO USE	RES. FIXED				
R 0 0 5 R 0 0 6 R 0 0 7	R92-1185-05 RD14BB2C302J RD14DB2H101J	RES. FIXED RES. CARBON RES. CARBON	3K 5% 1/6W 100 5% 1/2W			
R 0 1 3 R 0 1 4	RD14DB3A101J RD14DB3A101J	RES. CARBON RES. CARBON	100 5% 1W 100 5% 1W			
R O 1 9 R O 2 O	R92-0150-05 R92-0150-05	JUMPING RES. JUMPING RES.	ZERO OHN ZERO OHN			
R021 R022	RD14BB2C102J	RES. CARBON	1K 5% 1/6W			
R 0 2 3 R 0 2 4	RD14BB2C102J NO USE	RES. CARBON	1K 5% 1/6W			
R025 R026 R027	RD14BB2C102J RD14BB2C432J NO USE	RES. CARBON RES. CARBON	1K 5% 1/6W 4.3K 5% 1/6W			
	NO 005					

REF. NO	PARTS NO	NAME & DESC	RIPTION	
R028		RES. CARBON		1/6W
R029	NO USE			
R030	RD14BB2C432J	RES. CARBON	4.3K 52	
R031	RD14BB2C102J	RES. CARBON	1 K 52	1/6W
R032	RD14BB2C102J	RES. CARBON	1K 57	1/6₩
R 0 3 5	RD14BB2C102J	RES. CARBON	1 K 52	1/6W
R036	RD14BB2C102J	RES. CARBON	1 K 5	1/6W
R039	RD14BB2C102J	RES. CARBON	1 K 52	1/6W
R 0 4 0	RD14BB2C102J	RES. CARBON	1K 57	1/6W
R 0 4 1	RD14BB2C103J	RES. CARBON	10K 57	1/6W
R042	NO USE			
R 0 4 3	RD14BB2C103J	RES. CARBON	10K 5	1/6W
R 0 4 4	NO USE			
R 0 4 5	RD14BB2C103J	RES. CARBON	10K 5	1/6W
U 0 0 1	NJM4558D	IC, OP AMP		
U 0 0 2	NJM4558D	IC, OP AMP		
U 0 0 3	NJH4558D	IC, OP AMP		

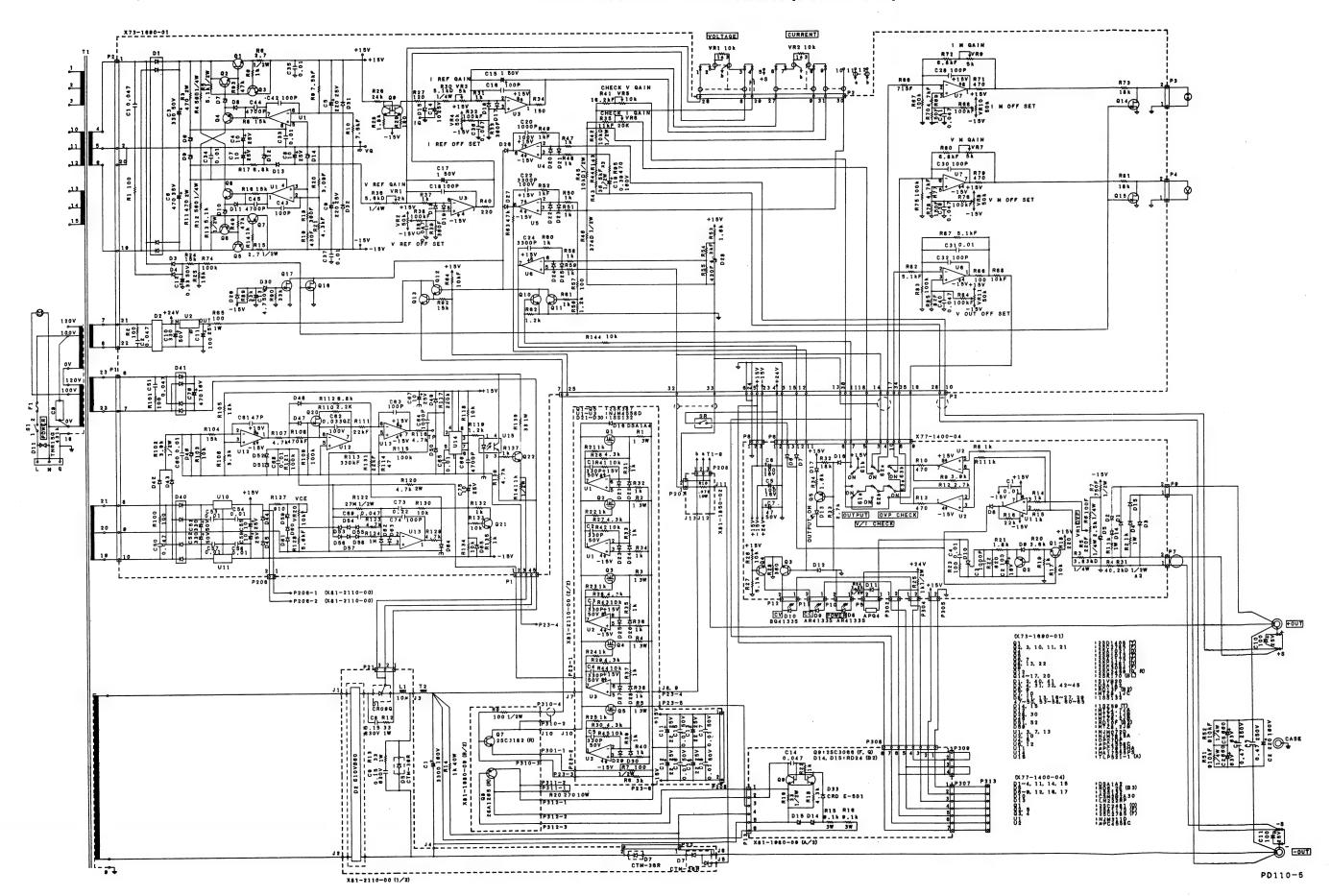
## **SCHEMATIC DIAGRAM (PD110-3)**



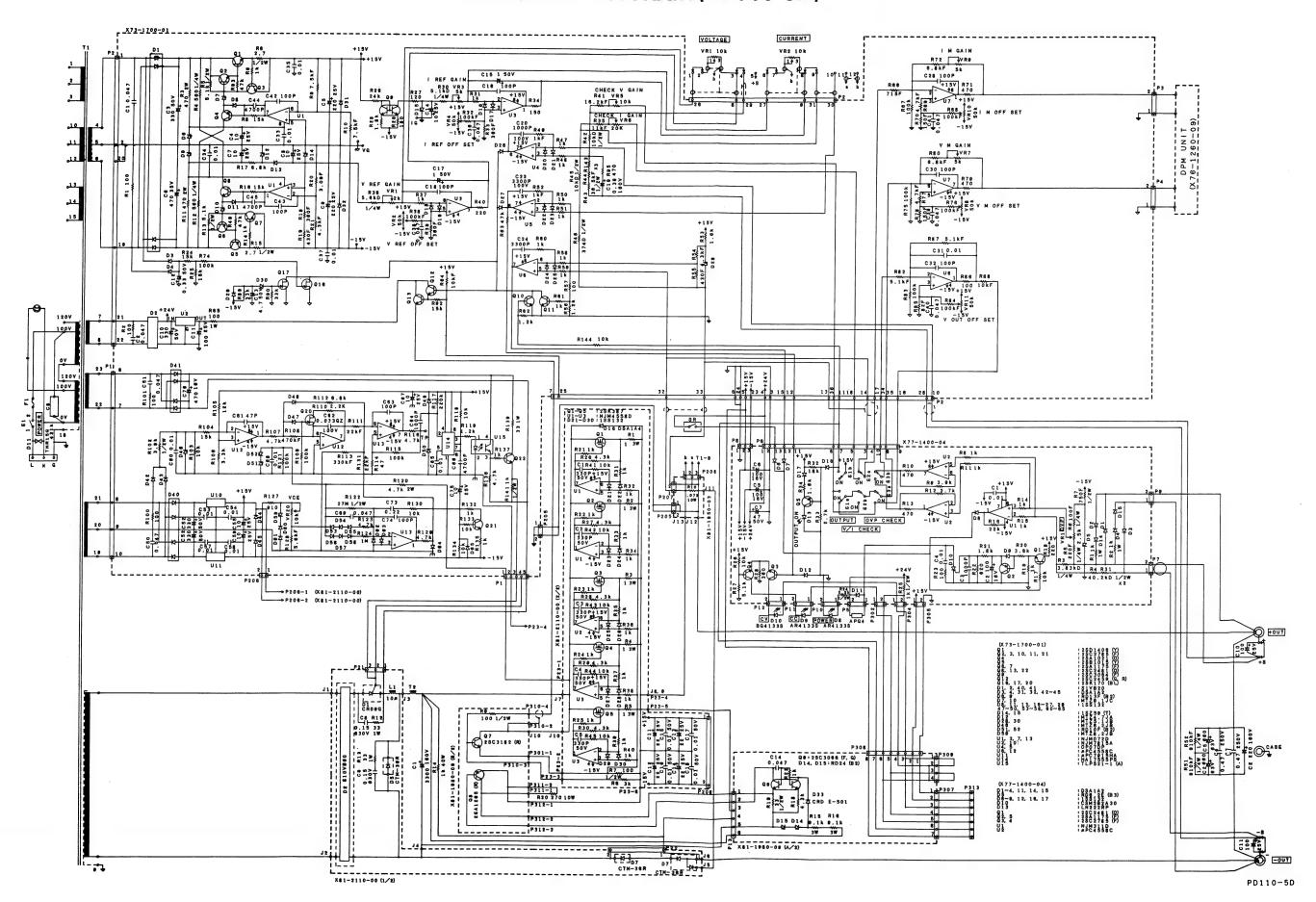
## **SCHEMATIC DIAGRAM (PD110-3D)**



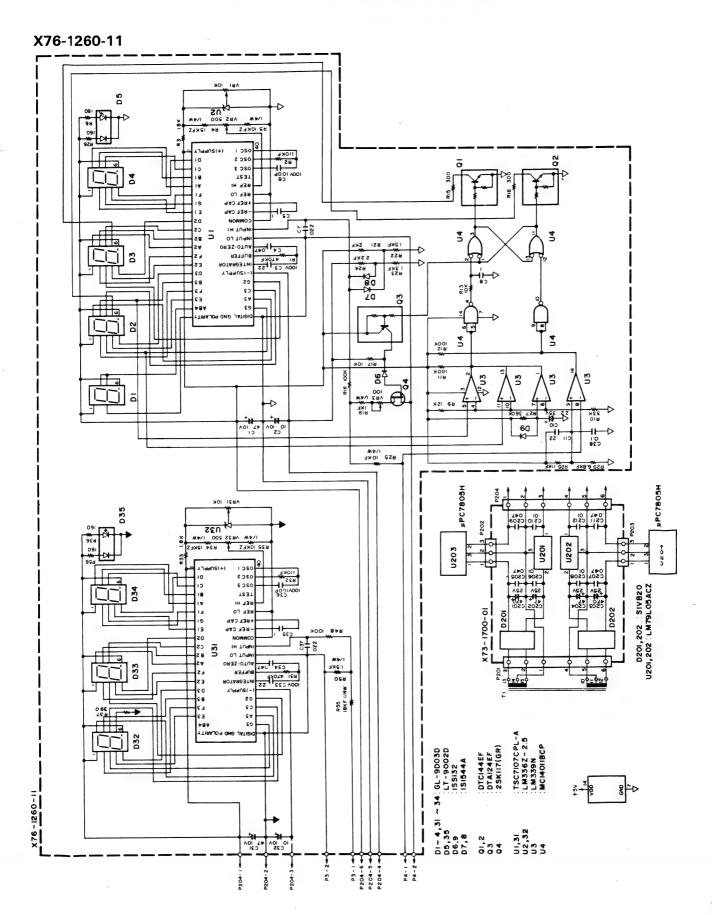
## **SCHEMATIC DIAGRAM (PD110-5)**



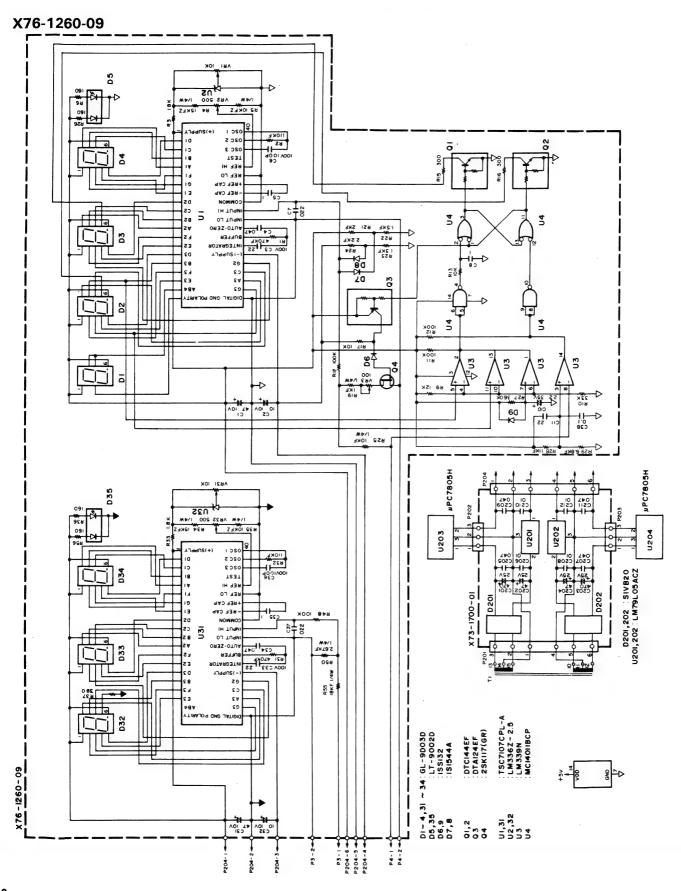
# **SCHEMATIC DIAGRAM (PD110-5D)**



# **SCHEMATIC DIAGRAM (PD110-3D)**

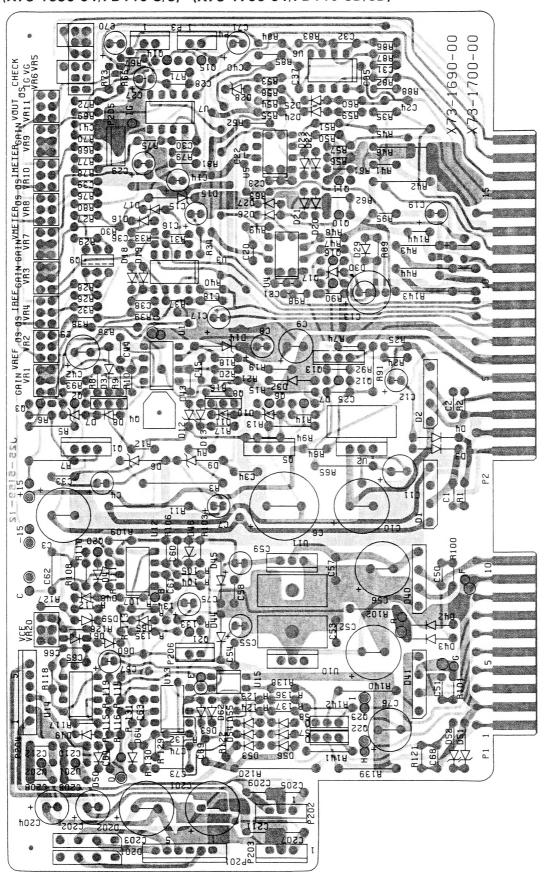


## **SCHEMATIC DIAGRAM (PD110-5D)**



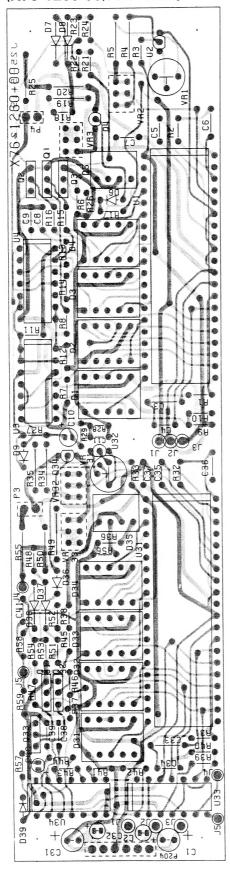
## P. C. BOARD

AMPLIFIER UNIT (X73-1690-01/PD110-3/5) (X73-1700-01/PD110-3D/5D)

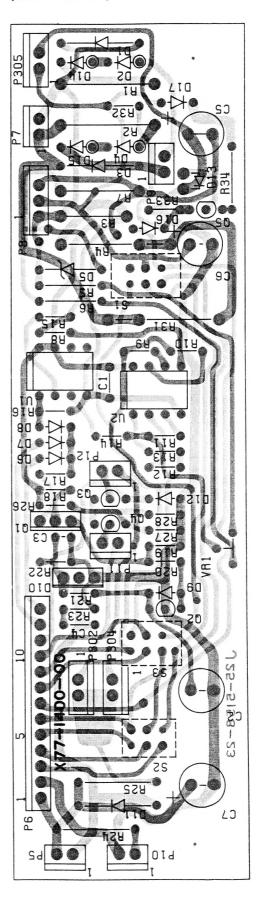


## P. C. BOARD

DIGITAL PANEL METER UNIT (X76-1260-11/PD110-3D) (X76-1260-09/PD110-5D)

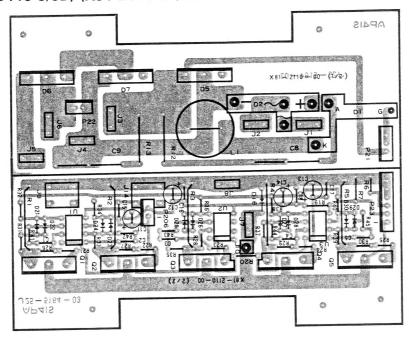


**AMPLIFIER UNIT** (X77-1400-04)



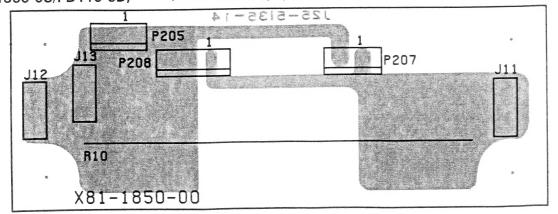
## P. C. BOARD

# RECTIFIER UNIT (X81-2110-00/PD110-5/5D) (X81-2110-01/PD110-3/3D)

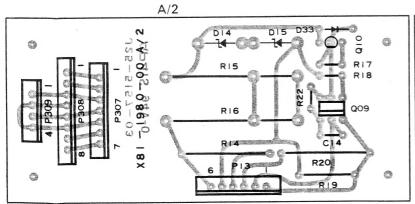


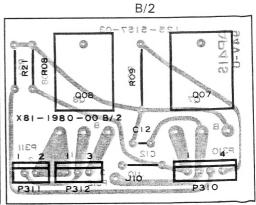
CURRENT DIFECTER UNIT (X81-1850-02/PD110-5) (X81-1850-03/PD110-5D)

(X81-1850-04) (DP110-3) (X81-1850-05) (PD110-3D)



# CONSTANT I UNIT (X81-1980-09/PD110) (X81-1980-11/PD110-3/3D)





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